Final Long-Term Monitoring Event Report Summer 2014

Chemical Insecticide Corporation Superfund Site Operable Unit 4 – Groundwater 30 Whitman Avenue Edison Township, Middlesex County, New Jersey

Prepared for:

U.S. Army Corps of Engineers, Kansas City District 601 East 12th Street Kansas City, Missouri 64106 Contract No. W912DQ-11-D-3001 Work Order 0007

Prepared by:

CTI and Associates, Inc. 920 Main Street, Suite 1050 Kansas City, Missouri 64105

DNC: CIC-07-062315-0001

Contents

1.	Introd	luction		1
	1.1.	Purpos	se and Scope	2
	1.2.	_	Organization	
2.	Study		ckground and Physical Setting	
	2.1.	Site De	escription and Location	4
	2.2.	Enviro	nmental Setting	4
		2.2.1.	Topography	5
		2.2.2.	Hydrology	5
		2.2.3.	Geology	6
		2.2.4.	Hydrogeology	7
	2.3.	Site Hi	story and Summary of Previous Investigations/Remedial Actions	8
	2.4.	Nature	and Extent of Groundwater Contamination	10
3.	Scope	of Moni	toring Event	12
	3.1.	Ground	dwater Level Measurements	12
	3.2.	Monito	oring Well Inspection	12
	3.3.	Ground	dwater Sampling	13
		3.3.1.	Monitoring Well Performance	13
	3.4.	Analyt	ical Methods	14
	3.5.	Quality	y Assurance/Quality Control	14
		3.5.1.	Equipment Decontamination	14
		3.5.2.	Equipment Calibration	14
		3.5.3.	Field Quality Control	15
		3.5.4.	Sample Delivery and Custody	15
		3.5.5.	Field Documentation	15
		3.5.6.	Data Validation	15
		3.5.7.	Electronic Data Deliverable	16
4.	Monit	toring Re	sults	17
	4.1.	Condit	ion of Monitoring Wells	17
	4.2.	Summa	ary of Hydrogeologic Results	17
	4.3.	Remed	liation Goals	18
	4.4.	Summa	ary of Analytical Results	18
		4.4.1.	7 · · · · · · · · · · · · · · · · · · ·	
		4.4.2.	Pesticides	19
		4.4.3.	Herbicides	19
		4.4.4.	Metals	20
5.	Concl	usions an	nd Recommendations	21
6	Refer	ences		24

Tables

Table 3-1	Groundwater Elevation Measurements
Table 3-2	Monitoring Well Inspection
Table 3-3	Field Parameter Measurements
Table 3-4	Sample Preparation and Analytical Methods
Table 4-1	Groundwater Elevation Analysis
Table 4-2	Groundwater Laboratory Analytical Results
Table 4-3	QA Sample Laboratory Analytical Results

Figures

Figure 1-1	Site Plan
Figure 2-1	Long-Term Monitoring Network
Figure 4-1	Overburden Groundwater Contour Map – September 29, 2014
Figure 4-2	Bedrock Groundwater Contour Map –September 29, 2014
Figure 4-3	Overburden & Transition Well Data – 2003-2014 Contaminant Concentrations
Figure 4-4	Bedrock Well Data – 2003-2014 Contaminant Concentrations

Appendices (on attached CD)

Appendix A	Water Level Measurements and USEPA Well Assessment Checklists
Appendix B	Groundwater Sampling Logs
Appendix C	Chain-of-Custody Records and CIC Sample Trip Report
Appendix D	Equipment Calibration Logs
Appendix E	Daily Quality Control Reports
Appendix F	Laboratory Analytical and Data Validation Reports

ii June 2015

LIST OF ACRONYMS AND ABBREVIATIONS

AGI Additional Groundwater Investigation

BGS Below Ground Surface BHC Benzene Hexachloride

Chemical Insecticide Corporation CIC

CM/SEC Centimeters/second COC Contaminant of Concern

Conti Conti Environment & Infrastructure, Inc.

CSM Conceptual Site Model CTI and Associates, Inc. CTI

DESA Division of Environmental Science and Assessment

1.2-DCA 1.2-Dichloroethane DO Dissolved Oxygen

DOT Department of Transportation Daily Quality Control Report **DOCR EDD** Electronic Data Deliverable

FT Foot

Gallons/day/ft² GPD/FT

GWQS NJDEP's Class IIA Groundwater Quality Standards

HDR/OBG HDR/O'Brein & Gere Kansas City District KCD Long-Term Monitoring LTM Long-Term Monitoring Plan **LTMP** Long-Term Response Action LTRA Maximum Contaminant Level MCL

ML/MIN Milliliters/Minute MSL Mean Sea Level

Matrix Spike/Matrix Spike Duplicate MS/MSD

New Jersey Department of Environmental Protection **NJDEP**

NJDOT New Jersey Department of Transportation

National Priorities List **NPL** O'Brien & Gere

OBG

Oxidation Reduction Potential **ORP**

Operable Unit OU PCE Tetrachloroethene QA Quality Assurance **Quality Control** OC RG Remediation Goal RI Remedial Investigation

Remedial Investigation/Feasibility Study RI/FS

Record of Decision ROD

SVOC Semi-volatile Organic Compound

Target Analyte List TAL Trichloroethene TCE TCL Target Compound List

TOC Top of Casing

USACE United States Army Corps of Engineers

> June 2015 iii

USEPA United States Environmental Protection Agency VOCs Volatile Organic Compounds

iv June 2015

1. Introduction

CTI and Associates, Inc. (CTI) performed long-term monitoring (LTM) services as part of Groundwater Operable Unit (OU) 4 at the Chemical Insecticide Corporation (CIC) Site in Edison Township, Middlesex County, New Jersey, under Long-Term Response Action (LTRA) Contract No. W912DQ-11-D-3001, Delivery Order 0007 with the U.S. Army Corps of Engineers, Kansas City District (USACE-KCD). USACE-KCD provides technical assistance to U.S. Environmental Protection Agency (USEPA) Region II under an Inter-Agency Agreement.

The CIC Site has been addressed in the following four remedial phases to date:

- OU1, completed in 1994, was an interim remedy to control contaminated surface water runoff from the Site:
- OU3, completed in 1997, was a final remedy to address contaminated soil and sediment in offsite creek areas;
- OU2, completed in 2005, was a final remedy to address contaminated surface and subsurface soils at the Site and surrounding properties; and
- OU4, currently in progress, is the final remedy to address contaminated groundwater and consists of LTM and institutional controls.

USEPA issued a Record of Decision (ROD) for OU4 in December 2003 to address residual groundwater contamination at the CIC Site and surrounding properties including Metroplex Corporation and Total TEC to the east, Morris Companies (formerly Allied Chemical Company) to the south, and Muller Machinery to the west. The Site and these surrounding properties are collectively defined as the CIC Study Area and encompass approximately 70 acres. The site location is presented on Figure 1-1. The OU4 ROD was based on data collected up to 2002 and prior to the implementation of the OU2 remedial action at the CIC Study Area. The major components of the selected remedy for OU4 include:

- Instituting controls to restrict the installation of wells and the use of groundwater in the area of groundwater contamination; and
- Implementing a long-term groundwater sampling program to monitor the nature and extent of contamination and assess the migration and potential attenuation of the plume over time.

The New Jersey Department of Environmental Protection (NJDEP) deferred their concurrence with the OU4 ROD until the OU2 remedial action could be completed and the effects of that remedy evaluated through the proposed LTM program. NJDEP stated that future concurrence with the OU4 ROD would be based on the monitoring data collected after the completion of the OU2 remedial action and the evaluation of any additional studies needed to more accurately predict the expected time frames needed to reach remediation goals in groundwater.

1.1. Purpose and Scope

This project is currently in the LTM phase to meet the objectives of the OU4 ROD (monitor the nature and extent of contamination and assess the migration and potential attenuation of the plume over time). To date, thirteen LTM sampling events have been conducted as follows:

- Additional Groundwater Investigation (AGI)/1st Quarter LTM Event July/August 2007;
- 2nd Quarter LTM Event December 2007;
- 3rd Ouarter LTM Event March 2008;
- 4th Quarter LTM Event June 2008;
- 5th Quarter LTM Event September 2008;
- 6th LTM Event March 2009;
- 7th LTM Event December 2009:
- 8th LTM Event December 2010;
- 9th LTM Event July 2011;
- 10th LTM Event March 2012;
- 11th LTM Event Winter 2012/2013;
- 12th LTM Event Fall 2013; and
- 13th LTM Event Summer 2014.

Groundwater sampling at the CIC Site is conducted in accordance with the *Final Long-Term Monitoring Plan* (HDR/O'Brien & Gere, October 2009). This plan was prepared as a formal mechanism and timetable for assessing the extent and movement of groundwater contamination across the CIC Study Area over the course of the LTM program.

Based on the stable groundwater plume at the CIC Study Area, the LTM program is scheduled to continue for seven years (2009 through 2015) with sampling conducted at nine month intervals. This sampling frequency (representing an approximate annual basis) will allow for sufficient collection of data during different seasons to allow for a complete assessment of groundwater elevation, contaminant levels, and plume migration over time. The LTM data also provided current information for USEPA to complete the 2014 5-year review.

This report documents the results of 13th LTM groundwater monitoring event (Summer 2014 LTM Event) performed in September 2014.

1.2. Report Organization

The remainder of this report contains descriptions and results of the activities performed as part of the Summer 2014 LTM Event. Brief summaries of the remaining sections are presented below.

- Section 2 Study Area Background and Physical Setting describes the physical setting of the CIC Study Area based on previous investigations and reports and summarizes the investigative and remedial activities completed to date.
- Section 3 Scope of Monitoring Event summarizes the LTM Event field work completed.
- Section 4 Monitoring Event Results presents the groundwater analytical results.
- Section 5 Conclusions & Recommendations discusses the conclusions based on the analytical results and groundwater flow direction from the Summer 2014 LTM Event, summarizes data

trends, and presents the upcoming schedule for the project. This section also discusses any recommendations based on the evaluation of the data.

2. Study Area Background and Physical Setting

This section summarizes the physical setting, past operations, and previous investigative and remedial activities at the CIC Study Area. Figure 1-1 depicts the CIC Study Area and the location of the existing monitoring well network.

2.1. Site Description and Location

The CIC Site is a fenced 5.7-acre property located at 30 Whitman Avenue in Edison Township, Middlesex County, New Jersey. It is bounded on the north by Interstate 287, on the east by a 35-foot wide Public Service Electric and Gas easement and active commercial properties owned by Metroplex Corporation and Total TEC, on the south by a large warehouse owned by Morris Companies and property once occupied by the former Allied Chemical Company, and on the west by a vacant industrial property formerly owned by Muller Machinery and the Conrail/CSX railroad right-of-way. The CIC Study Area encompasses the Site and these surrounding neighboring properties where investigations and remedial activities have been conducted to date. The CIC Site is currently owned by Edison Township, is grass covered, and contains rip rap channels and grass-lined swale to allow for storm water runoff and drainage.

The nearest residential properties are located approximately 300 to 400 feet away from the Site and are separated from the Site by either Interstate 287 to the north or the Conrail/CSX railroad right-of-way to the west. There are no permanent surface water bodies on the CIC Site. After heavy precipitation, storm water runoff drains toward the northeast corner of the Site where it discharges into an underground conduit designed to direct storm water to the existing storm sewer line located along the southbound lane of Interstate 287. The CIC Study Area drains to an unnamed tributary of Mill Brook, located southeast of the CIC Study Area, which flows into the Raritan River approximately four miles downstream of the Site. Both the unnamed tributary and Mill Brook run through residential areas. The residents near these tributaries and the residents directly surrounding the Site all obtain potable water from a public water supply system located approximately eight miles from the Site.

Potential contaminant source areas specific to the CIC property include former process water lagoons or impoundments, former areas of buried drums located on the eastern property boundary, and a former septic pit located on the western property boundary. Several former waste drum storage and debris areas, along with former remnant structures such as pipes, conduits, and tanks also appeared to have been the potential sources for specific contaminants. These collective sources are specific to the CIC Site itself and were not found elsewhere (or were found to be limited) in the CIC Study Area.

2.2. Environmental Setting

The physical characteristics presented in this section represent a compilation of data gathered and reported during the various phases of field investigation activities to date. This section is primarily based on information gathered prior to the implementation of the OU2 remedy to address contaminated surface and subsurface soils at the Site and surrounding properties. Information on changes to drainage and geology in the CIC Study Area as a result of the soil removal program is also presented in this section, and was obtained from Conti Environment & Infrastructure, Inc.'s *Remedial*

Action Report (Conti, September 2007). Finally, data gathered during the AGI performed by HDR/O'Brien & Gere (HDR/OBG) in August 2007 (HDR/OBG, September 2008) in support of updating the conceptual site model (CSM) is discussed in this section.

2.2.1. Topography

The CIC Site itself is situated on a flat lying property at an elevation of approximately 115 feet relative to mean sea level (msl). As a result of the OU2 soil remedy, this area is now graded and gently slopes to the east toward the Metroplex Corporation property. Further east, the land surface flattens out and slopes very gently to the east-southeast. A steep grade sloping down to the roadbed of Interstate 287 (approximate elevation of 92 to 94 feet msl) is located immediately north of the CIC Site. To the west, the land surface rises gradually before sloping downward to the excavated Conrail/CSX railroad grade. Directly beyond the fence to the south is an excavated railroad bed which was filled in during the OU2 remedy, and separates the CIC property from the Morris Companies property.

2.2.2. Hydrology

On a regional scale, the CIC Site itself occupies a high point in the northwest portion of the Mill Brook drainage basin. The ultimate receiving water body is the Raritan River located approximately four miles southwest of the Site. Historical topographic maps and aerial photographs indicate that the Mill Brook watershed has undergone tremendous change over the past 50 years, experiencing a combination of expressway construction, business office, manufacturing, industrial, and residential development. In general, the CIC Study Area was once wetlands and substantial filling of the CIC Site is evident as early as 1939.

In the 1940's and 1950's, surface water originating on the CIC Site drained by overland runoff through several distinctly observable drainage ditches eastward through the unnamed tributary to Mill Brook. Prior to the installation of the interim cap in 1994, surface conditions at the CIC Site included puddles, ruts, and sumps in which standing water accumulated, particularly after heavy or persistent precipitation. Runoff from precipitation that did not infiltrate into CIC Site soils flowed to the unnamed tributary via a drainage ditch.

The average annual yearly precipitation total in New Brunswick is 45.50 inches, with August (4.90 inches) the wettest month, and February (2.96 inches) the driest. Precipitation is generally well distributed throughout the year. However, some year-to-year variation in amounts recorded in late summer and early autumn may result from the northward passage of storms originating in the tropics. During years in which these seasonal storms occur, annual precipitation totals tend to be higher than normal and intense rain for short periods increases. Based on rainfall-intensity return periods from 1913 through 1951 for Trenton, New Jersey, approximately 30 miles south of the CIC site, a rainfall intensity of 1 inch per hour for a duration of 2 hours may be expected once every 5 years.

Currently, there is no uncontrolled drainage from the CIC Site and there has been no evidence of flooding observed during the groundwater sampling events. As part of the restoration phase of the OU2 remedy, a headwall and culvert drainage structure were engineered and installed in the northeast portion of the property to direct storm water to the existing storm sewer line running along Interstate 287. This allows storm water to flow into the drainage swale adjacent to the southbound lane of Interstate 287. A riprap swale was constructed on Site to direct storm water to the drainage structure.

A grass-lined drainage swale was also constructed to drain storm water to the riprap swale from the southern portion of the CIC Site. These surface drainage features are presented on Figure 1-1.

2.2.3. Geology

The CIC Study Area lies on the approximate boundary between the Atlantic Coastal Plain physiographic province and the Triassic Lowlands in the southeastern portion of the Piedmont physiographic province. Regionally, the Triassic Lowlands are characterized by underlying bedrock of northwestward sloping sedimentary bedrock deposits of shale, siltstone, and sandstone expressed at the surface by gently rolling lowlands. The sedimentary deposits are occasionally interrupted by basaltic lava flows and diabase intrusions which are more resistant to weathering than the sedimentary deposits and are subsequently expressed as topographic ridges. The Watchung Mountains, located approximately seven miles to the northwest, are the closest of these ridges. The coastal plain sediments consist in part of alternating layers of unconsolidated sands and clays, dipping gently toward the southeast.

In the vicinity of the CIC Study Area, bedrock consists of the Brunswick Formation of the Triassic age Newark group. The Brunswick Formation typically consists of soft, reddish-brown shale with some interbedded siltstone and sandstone. The formation is often highly fractured and easily weathered to reddish-brown clay. There is typically a layer of weathered or fragmented shale overlying more competent bedrock. In the Coastal Plain province, bedrock is overlain by alternating layers of unconsolidated sands, gravels, and clays, which regionally include the Raritan and Magothy Formations. The Raritan and Magothy deposits mapped in the vicinity of the Site are very thin to absent and are not easily differentiated from overlying fluvio-glacial deposits.

Based on the evaluation of site information generated prior to and after the OU2 remedy, the geology at the CIC Study Area consists of the following four stratigraphic units:

- **Fill** Fill materials comprise the upper 2 to 12 feet of unconsolidated materials (designated as Unit I in previous remedial investigation [RI] reports). The fill is predominantly composed of medium to coarse sand with subordinate amounts of gravel, silt, and clay, and minor amounts of debris. This fill unit was altered by the OU2 remedial action which involved excavation of CIC Study Area soils to varying depths, in excess of 20 feet below grade in some areas, based on source removal requirements. Backfill of excavated areas consisted of two distinct materials. A New Jersey Department of Transportation (NJDOT) I-9 coarse sand material was used below the natural water table to allow for drainage. A common fill was used above the water table.
- Fluvio-glacial Beneath the fill are 2 to 35 feet of gravels, silts, and clays that comprise the Pennsauken Formation (designated as Unit II in previous RI reports). Such deposits are fluvio-glacial in origin resulting in a heterogeneous and laterally discontinuous depositional nature. As with the fill unit, this fluvio-glacial deposit was altered in some areas of the CIC Study Area as a result of the OU2 remedy.
- Weathered bedrock (saprolite) Underlying the fluvio-glacial deposits are 4 to 45 feet of red clays and silts with lesser amounts of sand and gravel (designated as Unit III in previous RI reports). This unit is present throughout the CIC Study Area and appears to function as a semi-confining hydrologic barrier to vertical groundwater flow. In general, this geologic unit is relatively thin; less than 15 feet at the CIC Site, and increases in thickness toward the east. This unit appears to be a weathering product of the underlying Brunswick Formation, but may have

been locally reworked by fluvio-glacial processes. The contact between this unit and the underlying bedrock is typically transitional based on the degree of bedrock weathering.

 Bedrock – The Brunswick Formation (red shale), which is the youngest formation of the Triassic-aged Newark Group, occurs from 15 to 65 feet below grade (designated as Unit IV in previous RI reports). The CIC Site itself appears to be located on a bedrock topographic high, with bedrock occurring at deeper depths (relative to grade) east and south of the CIC Study Area.

During the installation of temporary and permanent wells during the AGI, subsurface soil conditions were evaluated to assess the stratigraphic conditions noted during previous investigations and changes as a result of the OU2 soil remedial action. No significant changes from the stratigraphic units noted above were observed.

2.2.4. Hydrogeology

Based on the evaluation of site hydrogeologic information generated prior to and after the OU2 remedy, the interpretation of the hydrogeology at the CIC Study Area consists of two separate groundwater flow regimes: an unconfined overburden zone comprised of the fill and fluvio-glacial deposits (Units I and II) and a partially confined, fractured bedrock water-bearing zone (Unit IV). The unconfined overburden zone and the fractured bedrock water-bearing zone are separated by a leaky weathered bedrock confining layer (Unit III). However, based on observations reported by others during previous drilling, the hydrostratigraphic units appear to cross stratigraphic boundaries. Based on data collected during the AGI, the CSM was updated to reflect that the overburden aquifer consists of the entire zone above competent bedrock as opposed to the shallow overburden and deep overburden identified during previous investigations.

The overburden material and weathered bedrock (or saprolite) within the CIC Study Area comprise a single hydrostratigraphic unit although the weathered bedrock could be considered a leaky confining zone and may locally comprise a hydrostratigraphic unit. The saprolite (Unit III) acts as semi-confining layer and for all practical purposes, is not considered an aquifer but rather an aquitard.

Monitoring wells associated with the LTM well network include the following:

- Overburden wells screened at the top of the unconfined overburden aguifer,
- Transition wells screened just above competent bedrock in the weathered bedrock or saprolite (clays and silts identified as Unit III), and
- Bedrock wells screened in the fractured bedrock water-bearing zone.

The OU2 remedy resulted in the alteration of the overburden geology within certain areas. The aquifer characteristics of the overburden geology (Units I and II) were altered by excavation and removal of fill and native soil and backfilling of the excavations with a more permeable material relative to the excavated soils. In some portions of the CIC Study Area, excavation extended to depth in excess of 20 feet below grade and extended to the saprolite (Unit III) semi-confining layer. Groundwater within the overburden aquifer has been encountered from 2 to 23 feet below grade throughout the CIC Study Area.

Based on the results presented in the AGI report, overall groundwater flow direction within the overburden aquifer does not appear to have been affected by the excavation and removal activities performed during the OU2 remedial action. Groundwater flow within the shallow bedrock (due in

7

part to more closely spaced fracture spacing) behaves similarly to that of the unconfined (phreatic) aquifer. Flow within the deeper bedrock is controlled by fracture hydraulics.

During the Phase IV RI, data collected by Foster Wheeler Environmental Corporation during a constant rate 48-hour bedrock pump test at a well located in the northeast corner of the CIC Site indicated an average transmissivity of 111 square feet/day (ft²/day) or 830 gallons/day/square foot (gpd/ft²). Using an estimated 100 feet for the aquifer thickness, an average hydraulic conductivity of 1.11 feet/day or 4 x 10⁴ centimeters/second (cm/sec) was estimated for the bedrock aquifer. Estimated storage coefficient values indicated semi-confined to confined bedrock aquifer conditions. Pump test results also indicated that there was little response in the overburden aquifer to pumping in the bedrock aquifer.

The hydraulic conductivity of the overburden materials decreases with depth (10^{-3} cm/sec shallow vs. 10^{-4} cm/sec right above rock). Overall horizontal groundwater flow is generally to the southeast, with flow directly from the CIC Site itself having a localized northeast flow direction (toward Interstate 287). The horizontal gradient typically ranges from 0.02 to 0.04 feet/feet. Based on the data collected during the AGI, the overall hydraulic gradient within the overburden aquifer for the CIC Study Area does not appear to have been affected by the OU2 remedy.

Groundwater flow direction within the first 20 to 50 feet of bedrock appears to behave more like groundwater flow within the overburden aquifer. Overall, groundwater flow within the shallow bedrock wells mimics the flow direction within the overburden aquifer. Groundwater flow within the deeper bedrock aquifer is expected to behave more consistent with regional hydraulic flow, which is generally to the southeast. However, in the northern portion of the CIC Site, flow is influenced by lower topography and the stormwater sewer system associated with Interstate 287, creating localized flow to the north and northeast.

Throughout the CIC Study Area, there is a downward vertical hydraulic groundwater flow component from the overburden aquifer to the shallow bedrock aquifer. The downward vertical flow component is impeded due to the low permeability of the weathered bedrock (saprolite) layer. There is some indication that, locally, groundwater within the deeper bedrock aquifer may exhibit an upward flow component to the shallow bedrock aquifer. The degree of hydraulic communication between the shallow and deeper bedrock is expected to vary based on fracture spacing and orientation.

2.3. Site History and Summary of Previous Investigations/Remedial Actions

CIC owned and operated the Site from 1954 to 1970. The Site was used for the formulating of, and possibly the manufacturing of, insecticides, fungicides, rodenticides, and herbicides. These formulating activities, combined with poor housekeeping, led to widespread chemical contamination at the Site, as well as migration of contaminants to offsite areas. At one time, the property consisted of approximately seven buildings used for the formulation/storage of pesticides and herbicides. Additionally, lagoons existed along the eastern property boundary that was reportedly used to hold some of the facility's wastewater.

In the mid-1960's, the Edison Department of Health and Human Resources became concerned about activity onsite due to numerous complaints from surrounding neighbors. In June 1966, the Edison Township Health Officer ordered the facility to stop discharging wastewater, oversaw disposal of leaking drums to eliminate an odor problem, and ordered the closing of the onsite lagoons.

In August 1970, CIC declared bankruptcy. Subsequently, Piscataway Associates purchased the property and demolished the production facilities by 1975.

In 1983, the former CIC facility was included in a USEPA/NJDEP dioxin-screening program that identified and sampled potential dioxin-contaminated sites. Sampling revealed low-level dioxin contamination in some of the former process areas, while results from neighboring properties did not show any evidence of dioxin contamination. While conducting the sampling at the Site, USEPA also collected additional samples for other commonly found pollutants. Data indicated widespread contamination onsite and limited contamination offsite.

Based on the results of these investigations, USEPA initiated an RI at the Site in July 1987. In August 1990, USEPA included the CIC Site on the National Priorities List (NPL). Concurrent with the remedial investigation / feasibility study (RI/FS), USEPA conducted several removal actions to mitigate risks associated with contaminated soil and surface water runoff from the Site.

In September 1989, USEPA issued a ROD for OU1, selecting an interim remedial action to control contaminated runoff from the CIC Site. The remedy consisted of installing a fence around the Site, clearing and grading, covering the Site with a high-density polyethylene surficial geo-cap liner to prevent infiltration of precipitation, and constructing a surface water runoff diversion system to collect uncontaminated surface water runoff from the cap and channel it to a drainage system. Construction of the interim remedy was completed in September 1994.

In March 1995, USEPA issued a ROD for OU3, selecting a remedy to address arsenic-contaminated soil and sediment in offsite creek areas. The remedy consisted of the excavation and offsite disposal of contaminated soil and sediment followed by restoration of offsite areas, stream beds, and wetlands. The OU3 remedy was completed in April 1997.

While proceeding with the OU1 and OU3 remedies, USEPA continued the RI/FS work for OU2 and OU4, collecting additional samples at the CIC Site and neighboring properties and evaluating alternatives for contaminated soil and groundwater. USEPA and NJDEP elected to proceed with the OU2 soil remedy independent of the groundwater remedy (OU4) since the interim cap was approaching the end of its projected life span and additional work remained to complete the groundwater RI/FS.

In September 2000, USEPA issued a ROD for OU2, selecting a remedy to address contaminated soil for the CIC and Muller properties and portions of the Metroplex and Morris Companies properties (collectively, the CIC Study Area). The remedy consisted of the excavation and offsite disposal of contaminated soil followed by restoration of the affected areas. The major objectives of the OU2 remedy were to reduce and eliminate the direct contact pathway for human exposure and the source of groundwater contamination. This action was also anticipated to have a reductive response to future groundwater contamination. The OU2 remedy was completed in May 2005.

Groundwater investigatory work was completed in 2002 and in December 2003, USEPA issued a ROD for OU4, selecting a remedy to address groundwater contamination associated with the CIC Study Area. The remedy consists of a long-term groundwater monitoring plan and the implementation of institutional controls.

A number of soil, sediment, surface water, groundwater, and air investigations have been conducted at the CIC Study Area, dating back to 1983. To summarize, these have included the following:

- 1983 investigation of the Site as part of a State-wide dioxin screening program;
- 1984 investigation by NJDEP in support of ranking the Site with the Hazard Ranking System;
- 1985 investigation by NUS Corporation as the USEPA Field Investigation Team;
- 1992 and 1993 investigations by USEPA at offsite locations;
- Four phases of RI/FS work beginning in 1987 and concluding in 1999;
- 1994 interim remedial action for OU1 (contaminated surface water runoff);
- 1997 remedial action for OU3 (contaminated offsite soil and sediment);
- 1998 post-cap sampling by USEPA;
- 2003 OU2 baseline groundwater sampling event by TAMS, under contract to USEPA;
- 2005 remedial action for OU2 (Site soils and source materials);
- 2005 OU2 post-remediation groundwater sampling event by USEPA;
- 2006 well inventory/usability survey by O'Brien & Gere;
- 2006 baseline monitoring event and 2007 well abandonment/rehabilitation by O'Brien & Gere;
- 2007 AGI/1st Quarter LTM Event by O'Brien & Gere;
- 2007 geologic evaluation of the CIC Site by the U.S. Geological Survey;
- 2007 2nd Quarter LTM Event and 2008 slug testing by O'Brien & Gere;
- 2008 3rd Quarter LTM Event by O'Brien & Gere;
- 2008 4th Quarter LTM Event by O'Brien & Gere;
- 2008 5th Quarter LTM Event by O'Brien & Gere;
- 2009 6th LTM Event by O'Brien & Gere;
- 2009 7th LTM Event by O'Brien & Gere;
- 2010 8th LTM Event by CTI;
- 2011 9th LTM Event by CTI;
- 2012 10th LTM Event by CTI;
- 2013 11th LTM Event by CTI;
- 2013 12th LTM Event by CTI; and
- 2014 13th LTM Event by CTI.

2.4. Nature and Extent of Groundwater Contamination

Groundwater at the CIC Study Area has been sampled over several time periods as noted above. The current understanding of the nature and extent of contamination is based on an evaluation of the 2003 and 2005 through 2014 groundwater monitoring events. Groundwater remediation goals (RGs) are established in the December 2003 ROD for OU4 as the most conservative value (i.e., the lowest) of the following sets of standards: (1) USEPA's Maximum Contaminant Levels (MCLs); (2) NJDEP's Safe Drinking Water Standards (or MCLs); and (3) NJDEP's Class IIA Groundwater Quality Standards (GWQS).

The overburden and bedrock groundwater is contaminated at the CIC Study Area. The principal sources appear to have been the overlying contaminated soil and/or contaminant residuals from the former septic pit, former process lagoons, and former buried drum areas. It is also possible that a portion of the groundwater contamination may have been attributable to wastewater discharged to the lagoons during CIC operations. The sporadic groundwater contamination in monitoring wells on neighboring properties to the east of the CIC Site primarily appears to originate from the historic routes of surface water drainage from the Site. These sources to groundwater contamination have been removed; with the latest being contaminated soils and source materials as of May 2005.

Sampling results over time have identified exceedances of metals (specifically arsenic), benzene hexachloride (BHC) pesticides, herbicides (specifically dinoseb), volatile organic compounds (VOCs) (benzene and chlorinated solvents) and semi-volatile organic compounds (SVOCs). There have been some notable decreases in concentrations from 2003/2005 to 2014, which is an indication that the OU2 soil remedial action is having a beneficial effect on groundwater concentrations. Trichloroethene (TCE) concentrations have decreased in the bedrock monitoring wells located in the northeastern corner of the CIC Site and concentrations of vinyl chloride, a breakdown product of chlorinated VOCs, have tended to increase over time. Concentrations of alpha-BHC in these monitoring wells also tend to fluctuate over time. Based on historical information on soil contamination, significant levels of dinoseb were identified in the southern portion of the CIC Site. Transition monitoring wells QD and FU (located in this area) has shown a relatively constant concentration of dinoseb over time. The concentration of arsenic in the bedrock monitoring wells has decreased dramatically since 2003.

Historically, the widest variety of contaminants has been detected in the deeper overburden and bedrock wells in the northeastern portion of the Site (where bedrock was encountered at a shallower depth than in other portions of the CIC Study Area). There was also contamination in the southern portion of the CIC Site within the deeper overburden and bedrock aquifers that appears to be specifically related to historic elevated concentrations of herbicides in this area. Sporadic contamination has also been identified to the east of the CIC Site (i.e., Metroplex Corporation and Total TEC portion of the CIC Study Area), which is indicative of historic surface water drainage patterns. It has been determined and concurred to by both USEPA and NJDEP that elevated levels of TCE east of the Metroplex Corporation building area (i.e., monitoring well BF-5) are from an unidentified local source, not CIC Site-related, and subsequently, this source is being addressed as a separate issue by the regulatory agencies.

3. Scope of Monitoring Event

This section describes the field investigation procedures, analytical methods, and quality assurance (QA)/quality control (QC) protocols as conducted during the Summer 2014 LTM Event at the CIC Study Area. Monitoring was conducted in accordance with the October 2009 *Final Long-Term Monitoring Plan* and applicable USEPA and NJDEP regulations and guidance. There were no noted deviations from these controlling documents during the sampling event.

The Summer 2014 LTM Event was conducted from September 28 through October 1, 2014. Groundwater samples were collected from the monitoring wells established as part of the LTM network which consists of the following 17 wells in the CIC Study Area:

•	BF-2	•	MW-2S	•	MW-6BR
•	BF-2D	•	MW-3BR	•	MW-7BR
•	BF-4	•	MW-3S	•	NUS-2D
•	FU	•	MW-4BR	•	NUS-3S
•	GU	•	MW-4S	•	QD
•	MW-2BR	•	MW-5BR		

The current LTM well network is depicted on Figure 2-1.

3.1. Groundwater Level Measurements

On September 29, 2014, CTI collected a synoptic round of water level measurements from all 26 groundwater monitoring wells. Water levels were measured using an electronic water level indicator with an accuracy of ± 0.01 feet from a consistent point at the top of the inner well casing. The stabilized water level and the calculated groundwater elevation based on the surveyed elevation of the inner well casing are presented on Table 3-1. The water level measurement information is presented in Appendix A.

3.2. Monitoring Well Inspection

A well inventory and inspection of the monitoring wells was conducted to evaluate the present condition of each well in the LTM monitoring well network. The USEPA Region 2 Superfund Well Assessment Checklist was completed for each monitoring well. The well inspection identified several deficiencies with the wells, primarily associated with the flush—mount well covers. The well deficiencies, well maintenance performed during the sampling event by field personnel, and recommendations for follow-up maintenance is presented in Table 3-2. The USEPA Well Assessment Checklist Forms are presented in Appendix A.

During the Fall 2013 sample event, damage to the Muller Property fence gate was noted and USACE and USEPA were notified that the CIC Site was not secure due to the Muller gate damage. Upon arrival to the site for the Summer 2014 sample event, the fence gate had been repaired and CIC Site secured. The Muller Property is located adjacent to the CIC Site to the west.

3.3. Groundwater Sampling

The monitoring wells were purged and sampled in accordance with USEPA Region II's *Ground Water Sampling Procedure – Low Stress (Low Flow) Purging and Sampling* dated March 1998 and as the primary guidance for low flow sampling, NJDEP's *Field Sampling Procedures Manual* (Section 6.9.2.2), dated August 2005. Groundwater sampling was conducted September 29 through October 1, 2014.

Initially, the static water level was measured in the monitoring well with an electronic water level indicator. A 1.75" QED Sample ProTM submersible bladder pump and attached TeflonTM-lined polyethylene tubing was carefully lowered to the designated sample depth interval within the well screen (approximate midpoint of screen interval) and secured. When starting the purge process, the groundwater was purged at a rate of approximately 100 milliliters/minute (mL/min) while monitoring drawdown and adjusted according to drawdown. Purge water was discharged to the ground surface.

Field parameters were monitored with a Horiba U-22 flow-through cell. Field parameter measurements of pH, specific conductivity, temperature, dissolved oxygen (DO), oxidation-reduction potential (ORP), and turbidity were recorded at approximate 5-minute intervals during purging. Purging continued until these field parameters stabilized. Upon stabilization of the field parameters, the flow-through cell was disconnected, the purge flow rate was maintained, and a groundwater sample was collected for laboratory analysis.

At monitoring well location MW-4S, insufficient water was present on the well to collect the samples by low flow sample methods. Only the VOC sample was collected for analysis using a disposable bailer. Due to the limited quantity of water present in the well, the laboratory sample for metals and pesticides were not collected and field parameter measurements were not recorded.

Due to the herbicide sample bottles collected from well FU on September 30, 2014, lacking sufficient sample volume, CTI returned to well FU on October 1, 2014, and re-collected the herbicide sample volume (designated FU Resample) following the low flow purge and sample protocol. An equipment rinsate sample was also collected from the bladder pump prior to use at well FU.

Table 3-3 presents field parameter measurements at the time of sample collection for each monitoring well. Groundwater sample logs are presented in Appendix B.

3.3.1. Monitoring Well Performance

During groundwater purging, numerous monitoring wells were found to recharge at a rate insufficient to support purge rates of approximately 100 to 200 ml/min and exhibited drawdown during well purging. When purging, the water level in the monitoring well casings dropped to a level greater than the 0.3 foot limit specified in the applicable guidance documents. In accordance with the USEPA Region II *Ground Water Sampling Procedure* for wells with insufficient yield, the groundwater purge rate and the water level were monitored to ensure dewatering of the well below the level of the pump intake did not occur and the water level was not lowered to a level below the top of the well screen. Purging continued until the field parameters became stabilized.

Low well yield has been documented during previous investigations. During the AGI, three wells with very low well yields (BF-4, MW-3S, and MW-2BR) were redeveloped suggesting the low well yield is a function of low aquifer hydraulic conductivity rather than well screen and filter pack performance. Following the Winter 2012/2013 sample event, monitoring wells MW-3S, MW-3BR, and FU were redeveloped due to high turbidity or the potential for sediment accumulation in the bottom of the well. Excessive drawdown was documented at these well locations during the Summer 2014 sample event, further supporting the concept that the low well yield is a function of low aquifer hydraulic conductivity rather than well screen and filter pack performance.

3.4. Analytical Methods

Groundwater samples and associated QC samples were shipped via FedEx or hand delivered to the following laboratories for analysis of the following parameters:

- USEPA Division of Environmental Science and Assessment (DESA) Laboratory, Edison, New Jersey, provided the Target Compound List (TCL) pesticides analysis, reporting for BHC compounds only, and the analysis of Target Analyte List (TAL) metals, reporting arsenic only.
- KAP Technologies, Inc. of The Woodlands, TX, provided analysis of TCL VOCs and the herbicides analysis from monitoring wells FU and QD, reporting for dinoseb only.

Table 3-4 presents a summary of sample preparation and analytical methods utilized during the Summer 2014 LTM Event. Chain-of-custody records and the CIC Sampling Trip Report for the samples submitted for laboratory analysis are included as Appendix C.

3.5. Quality Assurance/Quality Control

The overall QA/QC objective was to develop and implement procedures for field sampling, chain-of-custody, laboratory analyses, and reporting so that data was collected in a uniform manner, and that data is of consistently high quality. To collect and record data in a uniform manner, the March 2011 *Final Quality Assurance Project Plan* was prepared which describe and specify QA/QC procedures for the LTM program.

3.5.1. Equipment Decontamination

To reduce the possibility of cross-contamination, sampling equipment that came in contact with groundwater was decontaminated before each sample was collected. Where possible, disposable items were utilized (i.e., tubing) to reduce the potential for cross-contamination. Equipment was decontaminated near the monitoring well location with the spent solution and rinse water discharged to the ground surface (away from the well location).

3.5.2. Equipment Calibration

The equipment used to monitor the water quality indicator parameters was properly calibrated with reference standards at the start of each day of sampling. Additionally, pH calibration was performed again at the end of the day. Equipment calibration information was recorded on calibration logs presented in Appendix D.

3.5.3. Field Quality Control

Field QC samples collected during the Summer 2014 LTM Event included field duplicates, equipment (rinsate) blanks, trip blanks, and a matrix spike/matrix spike duplicate (MS/MSD). Analytical results for equipment blanks, trip blanks, and field duplicate samples (provided with the actual sample results as sample pairs) are presented in Section 4.0.

Two field duplicate samples were collected as a measure of the precision of the sample collection process and analytical reproducibility. Duplicates were collected at the same time, using the same procedures, the same equipment, and the same type of containers as the parent samples. Field duplicate samples were collected at NUS-3S and QD and the herbicide field duplicate sample was collected from monitoring well QD.

Equipment rinsate samples were collected and analyzed to examine the effectiveness of equipment decontamination procedures. Samples from the submersible pump and tubing were collected daily (four total) using high-grade deionized water. Equipment (rinsate) blanks were identified as "ER" and the sequence in which they were collected.

Trip blanks were prepared each day and accompanied each cooler with a VOC sample. The trip blanks served as an evaluation of contamination generated from sample containers or contamination occurring during the sample transport and laboratory storage processes. Three trip blanks were submitted (one per VOC sample shipment) and labeled "TB" and the sequence in which they were collected.

One MS/MSD sample was collected at a location not suspected of contamination but representative of different groundwater conditions to confirm the accuracy of the laboratory analysis. The MS/MSD sample was collected from well BF-4.

3.5.4. Sample Delivery and Custody

FedEx was used as the method of shipment to KAP Technologies, Inc., and samples were hand delivered to the USEPA-DESA laboratory during this sampling event. All samples were packaged for shipment in accordance with Contract Laboratory Program procedures, Department of Transportation (DOT) requirements, and chain-of-custody procedures.

3.5.5. Field Documentation

Chain-of-custody records, groundwater sampling logs, and equipment calibration logs were used as a means of recording the data collection activities performed each day onsite. Additionally, for each day of sampling, a daily quality control report (DQCR) was completed (see Appendix E).

3.5.6. Data Validation

The purpose of validating data is to allow the data user to interpret and use the data with varying degrees of confidence, depending on how the data are qualified (i.e., unqualified, estimated, or rejected). Groundwater samples collected during the Summer 2014 LTM Event for analysis of metals (reporting for arsenic only) and TCL pesticides analysis were submitted to the USEPA-DESA laboratory in Edison, NJ. Groundwater samples collected for analysis of TCL herbicides analysis

(monitoring wells FU and QD, reporting for dinoseb only) and VOCs were submitted to KAP Technologies, Inc. of The Woodlands, TX. USEPA performed data validation for 100% of the VOC, arsenic, pesticide, and herbicide analytical data. Data validation results and laboratory data are provided in Appendix F.

3.5.7. Electronic Data Deliverable

The analytical data from this sample event has been submitted electronically to USEPA in the electronic data deliverable (EDD) required format as part of the submission of this report.

4. Monitoring Results

The purpose of the Summer 2014 LTM Event was to collect groundwater samples from the LTM well network at the CIC Study Area to monitor contaminant concentrations, evaluate groundwater flow direction, and to continue monitoring the effectiveness of the May 2005 OU2 remedial action.

4.1. Condition of Monitoring Wells

A synoptic round of water level measurements was collected prior to the sampling event. During these measurements, the condition of each monitoring well was noted and well repairs associated with securing the covers on the flush-mount protective casings was performed at several well locations at the completion of the sample event.

4.2. Summary of Hydrogeologic Results

Based on the results of the synoptic round of water level measurements, groundwater elevations have begun to return to normal levels at many of the monitoring well locations across the CIC Study Area. During the Fall 2013 (December 3, 2013) sample event, a significant decrease in water elevation was noted in both the upper overburden aquifer and the bedrock aquifer in comparison to the Winter 2012/2013 (February 27, 2013) elevations, presumably due to dry weather conditions. Comparison of the Summer 2014 (September 29, 2014) and Fall 2013 groundwater elevations, presented in Table 4-1, indicates groundwater levels have increased in 17 of the 26 monitoring wells but at a rate that appears to be significantly lower than the initial decrease recorded in Fall of 2013. Potentiometric surface (groundwater contour) maps developed for the overburden and bedrock aquifers are presented on Figures 4-1 and 4-2, respectively.

Groundwater flow direction in the overburden and bedrock aquifers in the central and eastern portion of the CIC Study area is generally to the south and southeast. In the western portion of the CIC Study area, including the CIC site, groundwater flow direction in the overburden and bedrock aquifers is toward the northeast. Groundwater flow at the CIC site is influenced by lower topography and the excavation of bedrock for the construction of the highway and the associated stormwater sewer system, creating localized flow to the north and northeast. In general, the decrease in groundwater elevation in both the bedrock and overburden aquifers did not substantially alter the groundwater flow direction in either aquifer.

The bedrock aquifer is isolated from the overburden groundwater across the CIC Study Area by the weathered bedrock (saprolite) which acts as semi-confining layer and is not considered an aquifer but rather an aquitard. The vertical hydraulic gradient between the overburden and bedrock aquifers is predominantly downward, typically ranging from 0.003 to 0.24 ft/ft. The exception is at the NUS-3S/3D monitoring well nest where, during the Summer 2014 sample event, a slight upward vertical gradient (0.0009 ft/ft) is present. The reversal of the vertical hydraulic gradient at this location in comparison to previous LTM events is most likely short term and a result of the decrease in groundwater elevations in the area.

Within the bedrock aquifer, vertical hydraulic gradients between deep and shallow bedrock wells tend to be upward, ranging from 0.0038 ft/ft at BF-2/BF-2D to 0.012 ft/ft at MW-1BRD/MW-1BRS. The

vertical hydraulic gradient between the deep and intermediate bedrock wells BF-2D and MW-5BR, is slightly downward at 0.0011 ft/ft.

On the CIC Site, the horizontal groundwater flow gradient is approximately 0.018 feet/feet in the bedrock aquifer with groundwater flow toward the north and northeast. Based on hydraulic conductivity ranging from 2.8 x 10⁻⁵ cm/sec at BF-2D to 1.36 x 10⁻³ cm/sec at MW-5BR measured during the AGI and an assumed porosity of 10 percent, the groundwater seepage velocity is approximately ranges from 0.015 to 0.73 feet per day or 5.4 to 248 feet per year. In the CIC Study Area, the horizontal gradient is approximately 0.006 feet/feet in the overburden and bedrock aquifers with groundwater flow toward the east and southeast.

4.3. Remediation Goals

Screening criteria (remediation goals (RGs)) were used to assist in the interpretation of the analytical results. This included the most conservative value (i.e., the lowest) of USEPA's MCLs, NJDEP's MCLs, and NJDEP's GWQS. Analytical results for groundwater monitoring wells are presented in Table 4-2 for VOCs, pesticides, herbicides, and metals. Analytical results for equipment rinsate blanks and VOC trip blanks are presented in Table 4-3.

Contaminants of concern (COCs) have been selected for this project based on an evaluation of the various data sets (2003 to 2009). The primary COCs consist of one predominant contaminant compound per analyte group based on historic uses at the CIC Site, detections across the CIC Study Area, and the frequency of concentrations exceeding the established remediation goals. The primary COCs are as follows:

- VOCs TCE;
- Pesticides alpha-BHC;
- Herbicides dinoseb; and
- Metals arsenic.

Figures 4-3 and 4-4 depict contaminant concentration for the primary COCs and vinyl chloride from 2003 through 2014 for the overburden/transition wells and bedrock wells, respectively.

4.4. Summary of Analytical Results

The laboratory analytical packages are provided in Appendix F.

4.4.1. Volatile Organic Compounds

Groundwater analytical results for VOCs are presented on Table 4-2. Because the remediation goals for this project are low, a lower method detection limit (0.50 µg/L) was requested for VOC analysis.

The following constituents were detected at or above the remediation goals:

Trichloroethene (TCE) [goal of 1 μg/L]

• MW-7BR at $2.3 \mu g/L$; and

• QD at 1.5 μ g/L.

Tetrachloroethane (PCE) [goal of 1 µg/L]

• MW-7BR at 1.6 μg/L.

1,2-Dichloroethane (1,2-DCA) [goal of 2 µg/L]

- MW-5BR at 4.4 μg/L;
- MW-6BR at 3.1 μg/L;
- BF-2 at 6.7 μg/L; and
- QD at $2.6 \mu g/L$.

Vinyl Chloride [goal of 1 μg/L]

- BF-2 at 6.7 μg/L;
- BF-2D at 76 μ g/L; and
- MW-5BR at 44 μ g/L.

Benzene [goal of 1 µg/L]

- BF-2 at 3.6 μ g/L;
- BF-2D at 9.7 μg/L; and
- MW-5BR at 16 μg/L.

Monitoring well nest location BF-2, BF-2D, and MW-5BR continue to exhibit the broadest range of VOCs above the established remediation goals in the CIC Study Area. VOCs were also detected above the remediation goals at monitoring well locations MW-7BR and QD.

4.4.2. Pesticides

Groundwater analytical results for BHC compounds are presented on Table 4-2. The following BHC constituents were detected above the remediation goals:

alpha-BHC [goal of 0.02 μg/L]

- MW-5BR at 0.43 µg/L;
- BF-2 at 1.1 μ g/L;
- BF-2D at 0.56 μg/L;
- FU at 0.026 μg/L; and
- QD at 0.025 μg/L

beta-BHC [goal of 0.04 μg/L]

- BF-2 at 0.48 μg/L; and
- BF-2D at 0.24 μg/L.

4.4.3. Herbicides

Groundwater analytical results for dinoseb at monitoring wells FU and QD are presented on Table 4-2. Dinoseb was not detected above the remediation goal of 7.0 μ g/L in either well. Due to high dinoseb concentrations in the past (prior to the OU2 remedial action), this constituent was selected as the primary herbicide COC.

4.4.4. Metals

Groundwater analytical results for arsenic are presented on Table 4-2. A description of the analytical testing is presented in Section 3.4. Exceedances of the 3 μ g/L remediation goal were as follows:

- MW-5BR at 170 μg/L;
- BF-2 at 300 μg/L; and
- BF-2D at $4.0 \mu g/L$.

5. Conclusions and Recommendations

Conclusions

The groundwater flow regime at the CIC Study Area is comprised of an overburden and weathered bedrock groundwater flow system and the bedrock groundwater flow system. Groundwater in the overburden and bedrock aquifers is contaminated at the CIC Study Area with the principal sources being contaminated soil and source materials removed as part of the OU2 remedy and historic surface water drainage patterns from the CIC Site. Based on the data collected from 2003 to date, primary COCs include metals (specifically arsenic), BHC pesticides (specifically alpha-BHC), herbicides (specifically dinoseb), and VOCs. Figures 4-3 and 4-4 depict contaminant concentration for the primary COCs and vinyl chloride from 2003 through the Summer 2014 sample events for the overburden/transition wells and bedrock wells, respectively.

In the overburden aquifer, groundwater concentrations exceeded the established groundwater remediation goals at monitoring well locations QD for trichloroethene, 1,2-dichloroethane and alpha-BHC and FU for alpha-BHC. No other analytes exceeded the established groundwater remediation goals in the overburden aquifer. Monitoring wells QD is located in the central portion of the CIC Study Area. TCE and pesticide concentrations in monitoring well QD tend to fluctuate over time and intermittently exceed the established remediation goals. Pesticide concentrations in monitoring well FU also tend to fluctuate over time near the established remediation goal.

In the bedrock aquifer, groundwater concentrations exceeded the established groundwater remediation goals at five monitoring well locations for the following constituents.

Monitoring Well BF-2

- 6.7 μ g/L for 1,2-DCA (RG of 2 μ g/L)
- 6.7 µg/L for Vinyl Chloride (RG of 1 µg/L)
- 3.6 µg/L for Benzene (RG of 1 µg/L)
- 1.1 μg/L for alpha-BHC (RG of 0.02 μg/L)
- $0.48 \mu g/L$ for beta-BHC (RG of $0.04 \mu g/L$)
- 300 µg/L for Arsenic (RG of 3 µg/L)

Monitoring Well BF-2D

- 76 µg/L for Vinyl Chloride (RG of 1 µg/L)
- 9.7 μg/L for Benzene (RG of 1 μg/L)
- $0.56 \mu g/L$ for alpha-BHC (RG of $0.02 \mu g/L$)
- $0.24 \mu g/L$ for beta-BHC (RG of $0.04 \mu g/L$)
- 4.0 μg/L for Arsenic (RG of 3 μg/L)

Monitoring Well MW-5BR

- 4.4 μg/L for 1,2-DCA (RG of 2 μg/L)
- 44 µg/L for Vinyl Chloride (RG of 1 µg/L)
- 16 μg/L for Benzene (RG of 1 μg/L)
- 0.43 μ g/L for alpha-BHC (RG of 0.02 μ g/L)
- 170 μg/L for Arsenic (RG of 3 μg/L)

Monitoring Well MW-6BR

• 3.1 μg/L for 1,2-DCA (RG of 2 μg/L)

Monitoring Well MW-7BR

- 2.3 μ g/L for TCE (RG of 1 μ g/L)
- 1.6 μ g/L for PCE (RG of 1 μ g/L)

No other compounds exceeded the established groundwater remediation goals in the bedrock aquifer.

Monitoring well nest location BF-2, BF-2D, and MW-5BR provides a vertical profile of contaminant concentrations in the northeastern corner of the CIC Site and exhibits the broadest range of contaminants (VOCs, pesticides, and arsenic) above the established remediation goals in the CIC study area. Figure 4-4 depicts contaminant concentration for the primary COCs and vinyl chloride from 2003 through 2014 for the bedrock monitoring wells.

The arsenic concentration trend at shallow bedrock aquifer monitoring well BF-2 continue to decrease consistently from 2003 to 2014 (12,700 μ g/L in 2003, 370 μ g/L in 2012, 330 μ g/L in 2013 to 300 μ g/L in 2014, though at a more gradual rate of decrease in the recent past. A similar trend is also apparent at monitoring well MW-5BR where arsenic concentrations decreased consistently from 2003 to 2011 and appears to presently fluctuate between 170 and 130 μ g/L over the last four LTM sample events. The historical arsenic concentration trends indicate that the OU2 soil remedial action has had a beneficial effect on the shallow and intermediate bedrock groundwater arsenic concentrations in the years immediately following the source area remediation. The recent slow rate of decline and fluctuating arsenic concentration trends in the shallow and intermediate bedrock aquifer may indicate the bedrock aquifer is approaching asymptotic arsenic concentrations and steady state conditions with potential residual arsenic contamination.

Arsenic concentrations appear to fluctuate over time in the deeper sections of the bedrock aquifer. At deep bedrock monitoring well location BF-2D, arsenic decreased from 25.9 $\mu g/L$ in 2003 to non-detect during 6th LTM Event in 2009. Arsenic concentrations steadily increased in subsequent events to 16 $\mu g/L$ in 2010 and have since decreased to 4.0 $\mu g/L$ during the Summer 2014 LTM Event. The fluctuations in arsenic concentration may reflect fluctuations in groundwater elevation and/or changes in the vertical hydraulic groundwater flow gradient within the bedrock aquifer that results in the downward migration of groundwater with elevated arsenic concentration from the shallow bedrock aquifer.

Since 2009, TCE concentrations have been below the remediation goal of 1.0 $\mu g/L$ or nondetect in monitoring well BF-2 and BF-2D. Historically, TCE has not been detected in monitoring well MW-5BR. Vinyl chloride concentrations have tended to fluctuate in these wells following the 2005 OU2 soil remediation with vinyl chloride concentrations increasing with depth in the aquifer. The range of vinyl chloride concentrations include 5.0 $\mu g/L$ to 29 $\mu g/L$ at BF-2, from 44 $\mu g/L$ to 96 $\mu g/L$ at MW-5BR, and from 24 $\mu g/L$ to 130 $\mu g/L$ at BF-2D presumably as a result of the breakdown of chlorinated VOCs into their associated daughter products. In the northeast corner of the site at bedrock monitoring wells BF-2, BF-2D, and MW-5BR, groundwater flow is toward the interstate highway and likely discharges to the I-287 highway stormwater collection system. Vinyl chloride likely would rapidly volatilize at the point of discharge and does not appear to complete a human exposure pathway. Vinyl chloride was only detected at monitoring wells BF-2, BF-2D, and MW-5BR during the Summer 2014 LTM Event.

From 2012 to 2014, alpha-BHC concentrations decreased from 3.5 μ g/L to 0.56 μ g/L at BF-2D, from 3.2 μ g/L to 1.1 μ g/L at BF-2, and from 1.5 μ g/L to 0.43 μ g/L at MW-5BR. Beta-BHC concentrations decreased from 0.68J μ g/L to 0.24 μ g/L at BF-2D, from 0.96J μ g/L to 0.48 μ g/L at BF-2, and from 0.6J μ g/L to nondetect at MW-5BR. Historical analytical laboratory results for Dinoseb in monitoring well BF-2 indicates concentration had decreased from 24 μ g/L in 2003 to non-detect in 2008.

Anticipated upcoming activities for the CIC Study Area include the following sampling events:

• Spring 2015 LTM Event.

An LTM Report will be prepared after each sampling event.

Recommendations

A re-evaluation each year (after each LTM event) is required to assess whether changes to the LTM program are required. Currently, there are no recommended changes to the sampling program, nor is there any indication that any existing monitoring wells should be abandoned.

The following recommendations will improve the CIC field data collection methods and ensure the integrity of the groundwater monitoring well network:

- Direct measure total well depth using a heavy line weight and fiberglass survey tape to accurately measure well depth and evaluate the accumulation of sediment at the bottom of the well.
- Perform additional monitoring well maintenance and/or monitoring well redevelopment to protect well integrity and improve monitoring well performance.
- Continue to monitor the performance of NUS-3S due to the identification of a crack in the
 well screen. Based on the upgradient groundwater flow location and non-detect status, NUS3S can remain "as is" in the monitoring network until the growth of roots or the collection of
 sediment cause sufficient blockage to render the well unusable.

6. References

Conti, 2007. Remedial Action Report, Chemical Insecticide Corporation Superfund Site, Operable Unit 2, Edison Township, Middlesex County, New Jersey.

CTI, 2014. Final Fall 2013 Long-Term Monitoring Event Report, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

CTI, 2013. Final Winter 2012/2013 Long-Term Monitoring Event Report, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

CTI, 2012. Final March 2012 Long-Term Monitoring Event Report, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

CTI, 2012. Final July 2011 Long-Term Monitoring Event Report, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

CTI, 2011. Final December 2010 Long-Term Monitoring Event Report, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

CTI, 2010. Final Quality Assurance Project Plan, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

HDR/O'Brien & Gere, 2008. Additional Groundwater Investigation Report and 1st/2nd Quarter Long-Term Monitoring Events, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

HDR/O'Brien & Gere, 2009. Final Long-Term Monitoring Plan, Chemical Insecticide Corporation Superfund Site, Operable Unit 4, Edison Township, Middlesex County, New Jersey.

USEPA 2014. Five-Year Review Report for Chemical Insecticide Corporation Superfund Site, Middlesex County, New Jersey

USEPA Region II's Ground Water Sampling Procedure – Low Stress (Low Flow) Purging and Sampling dated March 1998.

NJDEP's Field Sampling Procedures Manual (Section 6.9.2.2) dated August 2005.

Table 3-1 Groundwater Level Measurements Summer 2014 Sample Event Chemical Insecticide Corporation Edison Township, Middlesex County, New Jersey Operable Unit 4 (OU4) - Groundwater

Well ID	Aquifer	Depth to Water September 29,	Groundwater Elevation	Total Depth	Top of Inner	Ground Surface	Total Depth Installed	Difference Between	Total Depth Installed	Screen Int	,	Northing	Easting
wenin	Aquiici	2014	September 29, 2014	Total Depth	Casing Elevation	Elevation	(feet bgs)	TOC/Ground Surface	(feet TOC)	Тор	Bottom	Coordinate	Coordinate
BF-2	Bedrock	10.74	94.58	34.03	105.32	104.52	34.5	0.80	35.30	24.5	34.5	617318.0	529088.8
BF-2D	Bedrock	14.69	94.79	91.38	109.48	108.18	90	1.30	91.30	80	90	617366.4	529046.4
BF-4	Bedrock	1.10	92.92	85.10	94.02	93.67	85.4	0.35	85.75	75.4	85.4	617180.5	529619.1
BF-5	Bedrock	10.12	85.19	35.10	95.31	94.95	35.35	0.36	35.71	25.35	35.35	616806.0	530061.2
FU	Overburden	5.05	90.56	13.65	95.61	95.06	15	0.55	15.55	5	15	616815.4	529626.8
GU	Overburden	5.61	89.64	35.45	95.25	94.70	36	0.55	36.55	26	36	617084.7	529627.5
MW-1BRD	Bedrock	17.38	93.76	99.50	111.14	110.69	100	0.45	100.45	90	100	617758.6	528988.7
MW-1BRS	Bedrock	18.27	93.12	44.90	111.39	111.09	45	0.30	45.30	35	45	617750.9	528979.4
MW-1S	Transition	15.93	95.46	16.95	111.39	110.77	17	0.62	17.62	7	17	617736.1	528959.6
MW-2BR	Bedrock	6.52	97.96	90.50	104.48	104.16	90	0.32	90.32	80	90	617522.1	529713.2
MW-2I	Transition	6.93	97.81	34.67	104.74	104.49	35	0.25	35.25	25	35	617510.3	529700.4
MW-2S	Overburden	6.55	98.21	13.34	104.76	104.46	14	0.30	14.30	4	14	617515.4	529705.0
MW-3BR	Bedrock	6.67	81.18	40.20	87.85	86.40	38	1.45	39.45	28	38	616365.4	531000.7
MW-3S	Transition	8.79	79.61	15.60	88.40	85.50	14	2.90	16.90	4	14	616342.9	531004.3
MW-4BR	Bedrock	24.11	93.17	61.23	117.28	115.93	58	1.35	59.35	48	58	617588.6	528348.2
MW-4S	Overburden	15.34	102.95	18.70	118.29	115.69	17	2.60	19.60	7	17	617603.2	528341.8
MW-5BR	Bedrock	9.85	94.82	63.53	104.67	104.22	63	0.45	63.45	53	63	617340.0	529113.9
MW-6BR	Bedrock	14.09	94.60	78.55	108.69	108.14	79	0.55	79.55	63	79	617054.4	529064.2
MW-7BR	Bedrock	5.45	90.35	44.20	95.80	95.35	44	0.45	44.45	34	44	616812.9	529631.5
MW-8BR	Bedrock	15.65	89.64	63.24	105.29	104.84	63	0.45	63.45	53	63	616453.3	530010.9
NUS-2D	Bedrock	18.41	98.03	111.45	116.44	115.92	105	0.52	105.52	89	105	616745.8	528866.2
NUS-3D	Bedrock	10.80	109.22	40.30	120.02	119.40	43	0.62	43.62	25	43	616683.5	528591.5
NUS-3S	Overburden	11.44	109.20	16.60	120.64	120.29	14	0.35	14.35	4	14	616681.0	528598.9
OU	Overburden	6.61	88.09	8.10	94.70	94.40	8.5	0.30	8.80	3.5	8.5	616797.4	530059.1
QD	Transition	19.92	91.01	47.70	110.93	110.68	48	0.25	48.25	38	48	616751.9	529370.6
UU	Overburden	12.13	83.60	19.02	95.73	93.93	18	1.80	19.80	8	18	616309.5	530363.2

Notes:

bgs = below ground surface

Depth to water measured from top of inner casing (TOC) and are provided in feet.

Elevations are in NAVD1988 Datum.

Survey information is from work conducted by Kupper Associates as part of the additional groundwater investigation/1st Qtr LTM activities.

Overburden = Geologic Unit I (fill material) and II (fluvio-glacial deposits) from previous remedial investigation activities.

Transition = Geologic Unit III (slightly weathered zone/clay and silt) from previous remedial investigation activities.

Bedrock = Geologic Unit IV (consolidated Brunswick shale) from previous remedial investigation activities.

"Total Depth Installed" and "Screen Interval" data are based on available information including boring logs, well construction logs, and NJDEP well records. Subsequently, measurments may not be completely accurate since the work was conducted by other contractors.

Table 3-2 Monitoring Well Inspection Summer 2014 Sample Event Chemical Insecticide Corporation Edison Township, Middlesex County, New Jersey Operable Unit 4 (OU4) - Groundwater

Well Number	Well Deficiency	Well Maintenance Performed	Recommendations
MW-7 BR	Broken tab on flushmount cover, only two of the three bolt holes can accept a bolt. The flush mount pad is in a low paved area, water ponds over the well.	bolts to temporarily	Well cannot be secured due to broken cover tab, bolt holes are stripped and need to be retapped. The protective casing and concrete pad should be replaced as described for well FU.
OU	Well casing J-plug in smaller than required to adequately seal well casing.	None	Order correct size well plug (4.5") and replace during next sample event.
NUS-3S	Roots present in the well screen interval.	In July, 2011, downhole camera identified break in the well screen at 9.4' below TOC.	Well screen is comprimised and may be replaced if necessary.
FU	The flush mount pad is in a low area of the parking lot. Water pools over the well, filling the handhole with water.	Installed larger diameter self tapping bolts to temporarily secure the flush mount lid.	The protective flush mount and concrete pad should be replaced higher than the surrounding pavement to prevent ponding over the well.

Table 3-3 Field Parameter Measurements Summer 2014 Sample Event Chemical Insecticide Corporation Edison Township, Middlesex County, New Jersey Operable Unit 4 (OU4) - Groundwater

Well Number	Well Diameter (inches)	Date	Sample Time (24-hour)	Amount Purged (Liters)	Purge Flow Rate (mL/min)	pН	Temperature (°C)	Conductivity (µmhos/cm)	Turbidity (NTU)	Oxidation Reduction Potential (mV)	Dissolved Oxygen (mg/L)	Water Level (feet below TOC)	Comments
BF-2	5 3/8	9/30/2014	1535	4.5	150	6.24	16.38	392	0.0	-55	0.74	10.81	
BF-2D	2	9/30/2014	1435	9.5	210	6.58	15.32	427	50.7	-39	2.25	14.84	Pink colored water
BF-4	4	9/29/2014	1355	9.8	180	7.77	19.21	414	0.0	-77	7.24	4.03	Drawdown > 0.3 feet
FU	5 3/8	10/1/2014	1635	11.3	125	6.38	18.23	572	0.0	174	1.11	6.28	Drawdown > 0.3 feet
GU	4	9/29/2014	1245	8.0	240	6.69	19.24	556	2.7	-9	0.97	6.70	Drawdown > 0.3 feet
MW-2BR	2	9/29/2014	1540	3.5	110	8.92	16.69	370	27.1	16	1.07	7.95	Drawdown > 0.3 feet
MW-2S	2	9/29/2014	1330	6.0	100	6.33	11.49	522	3.1	0	0.94	8.65	Drawdown > 0.3 feet
MW-3BR	2	10/1/2014	1225	5.0	100	7.08	16.61	260	19.2	-77	1.04	7.19	Drawdown > 0.3 feet
MW-3S	2	10/1/2014	1350	5.5	100	4.17	19.06	1300	20.5	333	0.92	10.51	Drawdown > 0.3 feet
MW-4BR	2	9/29/2014	1110	7.0	100	6.29	17.31	450	26.6	-47	1.05	24.19	
MW-4S	2	9/30/2014	0804	*	*	*	*	*	*	*	*	15.34	sampled with bailer
MW-5BR	2	10/1/2014	0935	6.0	150	6.60	15.29	570	27.5	-75	1.03	10.04	
MW-6BR	2	9/30/2014	1245	10.0	210	7.61	17.85	274	32.6	-71	5.47	24.37	Drawdown > 0.3 feet
MW-7BR	2	9/30/2014	1415	7.5	100	6.17	18.74	436	0.0	166	0.89	6.12	Drawdown > 0.3 feet
NUS-2D	6	9/28/2014	1631	3.0	110	7.06	16.12	244	0.0	-67	1.56	18.89	Drawdown > 0.3 feet
NUS-3S	6 1/2	9/28/2014	1410	13.0	170	4.85	18.65	116	5.7	320	3.91	11.44	
QD	4	9/30/2014	1010	10.0	220	6.86	15.65	286	1.7	122	0.41	20.01	

Notes:

mL/min = milliliters per minute $(\mu mhos/cm)$ = micromhos per centimeter $^{\circ}C$ = degrees Celsius PID = photoionization detector NTU = nephelometric turbidity units mV = millivolts ppm = parts per million NM = not measured mg/L = milligrams per liter

TOC = top of casing * = not measured, insuffient water in the well to perform low flow sampling, a grab sample was collected.

Table 3-4 Sample Preparation and Analytical Methods Summer 2014 Sample Event Chemical Insecticide Corporation Edison Township, Middlesex County, New Jersey Operable Unit 4 (OU4) - Groundwater

Matrix	Analytical Group	Concentration Level	Analytical Method	Sample Volume and Container	Preservation Requirements	Maximum Holding Time
Groundwater	TCL VOCs	Trace	USEPA SOP DW-1 (GC/MS Method)	3-40mL VOA vials with Teflon-lined septum caps	4 degrees C, HCL to pH<2	14 days from collection for analysis
Groundwater	ndwater TCL Pesticides Trace		USEPA SOP C-91 (GC/ECD Method)	2-500 ml amber glass container with Teflon-lined screw cap	4 degrees C	7 days from collection to extraction; 40 days from extraction to analysis
Groundwater	Herbicides	Trace	USEPA Method 3510C8151A	2-1 L amber glass container with Teflon-lined screw cap	4 degrees C	7 days from collection to extraction; 40 days from extraction to analysis
Groundwater	TAL Metals	Low	USEPA SOP C-109 (ICP-AES Method)	1-500 mL polyethylene container	4 degrees C, HNO3 to pH<2	180 days from collection for analysis

Notes:

HCL = hydrochloric acid

HNO3 = nitric acid

L = liter

mL = millileter

TAL = Target Analyte List

TCL = Target Compound List

SOP = Standard Operating Procedure

USEPA = U.S. Environmental Protection Agency

VOCs = volatile organic compounds

Table 4-1 Groundwater Elevation Analysis Summer 2014 Sample Event Chemical Insecticide Corporation Edison Township, Middlesex County, New Jersey Operable Unit 4 (OU4) - Groundwater

Well ID	Aquifer	Water	Water Elevation	Water	Water Elevation	Water Elevation	Water Column	Top of Inner Casing	Ground Surface		Interval bgs)	Total
wen iD	Aquilei	Depth 12/3/2013	12/3/2013	Depth 9/29/2014	9/29/2014	Change	(feet)	Elevation	Elevation	Тор	Bottom	Depth
BF-2	Bedrock	11.10	94.22	10.74	94.58	0.36	23.29	105.32	104.52	24.5	34.5	34.03
BF-2D	Bedrock	15.04	94.44	14.69	94.79	0.35	76.69	109.48	108.18	80	90	91.38
BF-4	Bedrock	1.40	92.62	1.10	92.92	0.30	84.00	94.02	93.67	75.4	85.4	85.10
BF-5	Bedrock	9.94	85.37	10.12	85.19	-0.18	24.98	95.31	94.95	25.35	35.35	35.10
FU	Overburden	5.49	90.12	5.05	90.56	0.44	8.60	95.61	95.06	5	15	13.65
GU	Overburden	6.46	88.79	5.61	89.64	0.85	29.84	95.25	94.70	26	36	35.45
MW-1BRD	Bedrock	17.18	93.96	17.38	93.76	-0.20	82.12	111.14	110.69	90	100	99.50
MW-1BRS	Bedrock	18.46	92.93	18.27	93.12	0.19	26.63	111.39	111.09	35	45	44.90
MW-1S	Transition	13.84	97.55	15.93	95.46	-2.09	1.02	111.39	110.77	7	17	16.95
MW-2BR	Bedrock	6.73	97.75	6.52	97.96	0.21	83.98	104.48	104.16	80	90	90.50
MW-2I	Transition	6.77	97.97	6.93	97.81	-0.16	27.74	104.74	104.49	25	35	34.67
MW-2S	Overburden	6.22	98.54	6.55	98.21	-0.33	6.79	104.76	104.46	4	14	13.34
MW-3BR	Bedrock	7.23	80.62	6.67	81.18	0.56	33.53	87.85	86.40	28	38	40.20
MW-3S	Transition	8.99	79.41	8.79	79.61	0.20	6.81	88.40	85.50	4	14	15.60
MW-4BR	Bedrock	24.21	93.07	24.11	93.17	0.10	37.12	117.28	115.93	48	58	61.23
MW-4S	Overburden	16.57	101.72	15.34	102.95	1.23	3.36	118.29	115.69	7	17	18.70
MW-5BR	Bedrock	10.20	94.47	9.85	94.82	0.35	53.68	104.67	104.22	53	63	63.53
MW-6BR	Bedrock	14.74	93.95	14.09	94.60	0.65	64.46	108.69	108.14	63	79	78.55
MW-7BR	Bedrock	5.71	90.09	5.45	90.35	0.26	38.75	95.80	95.35	34	44	44.20
MW-8BR	Bedrock	16.04	89.25	16.65	88.64	-0.61	46.59	105.29	104.84	53	63	63.24
NUS-2D	Bedrock	18.91	97.53	18.41	98.03	0.50	93.04	116.44	115.92	89	105	111.45
NUS-3D	Bedrock	10.22	109.80	10.80	109.22	-0.58	29.50	120.02	119.40	25	43	40.30
NUS-3S	Overburden	10.88	109.76	11.44	109.20	-0.56	5.16	120.64	120.29	4	14	16.60
OU	Overburden	6.67	88.03	6.61	88.09	0.06	1.49	94.70	94.40	3.5	8.5	8.10
QD	Transition	20.40	90.53	19.92	91.01	0.48	27.78	110.93	110.68	38	48	47.70
UU	Overburden	12.10	83.63	12.13	83.60	-0.03	6.89	95.73	93.93	8	18	19.02

Notes:

 $bgs = below \ ground \ surface$

Depth to water measured from top of inner casing (TOC) and are provided in feet.

Elevations are in NAVD1988 Datum.

Survey information is from work conducted by Kupper Associates as part of the additional groundwater investigation/1st Qtr LTM activities.

Overburden = Geologic Unit I (fill material) and II (fluvio-glacial deposits) from previous remedial investigation activities.

Transition = Geologic Unit III (slightly weathered zone/clay and silt) from previous remedial investigation activities.

Bedrock = Geologic Unit IV (consolidated Brunswick shale) from previous remedial investigation activities.

"Total Depth Installed" and "Screen Interval" data are based on available information including boring logs, well construction logs, and NJDEP well records. Subsequently, measurements may not be completely accurate since the work was conducted by other contractors.

Table 4-2 **Groundwater Laboratory Analytical Results - Summer 2014 Sample Event** Chemical Insecticide Corporation - Edison Township, Middlesex County, New Jersey Operable Unit 4 (OU4) - Groundwater

Wall Lasskins		MW-2S	MW-2BR	N 414 2C	I	MW-4S	MW-4BR	1414 500	1 10 14 CDD	MW-7BR	DF 2	DF 2D	BF-4	NUS-2D	NUS-3S	FU	GU	QD
Well Location	Remediation Goal	09/29/2014	09/29/2014	MW-3S	MW-3BR	09/30/2014	09/29/2014	MW-5BR	MW-6BR	09/30/2014	BF-2	BF-2D	09/29/2014	09/28/2014	09/28/2014	09/30/2014	09/29/2014	09/30/2014
Sample Date	Remediation Goal			10/01/2014 Transition	09/30/2014			10/01/2014	09/30/2014	T	09/30/2014	09/30/2014	1					
Well Placement	/1	Overburden	Bedrock		Bedrock	Overburden	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Bedrock	Overburden	Overburden	Overburden	Transition
Volatile Organic Compounds	ug/L 6000	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U	ug/L 5.0 U
Acetone Benzene	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.0 U	0.50 U	0.50 U	3.6	9.7	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromochloromethane	100*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromodichloromethane	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Bromoform	4.0	0.50 UJ	0.50 U.	J 0.50 U	0.50 UJ	0.50 U.	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 U.	0.5 U	0.50 U.	J 0.50 UJ
Bromomethane	10*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U
2-Butanone	300*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Carbon Disulfide Carbon tetrachloride	700 1.0	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U
Chlorobenzene	50	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	14	0.52	0.50 U	14	14	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.46 J
Chloroethane	100*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloroform	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Chloromethane	100*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Cyclohexane	100*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Dibromochloromethane	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dibromo-3-chloropropane 1,2-Dibromoethane	0.02 0.03*	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U
1,3-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,4-Dichlorobenzene	75	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.2 U	0.50 U	0.50 U	1.2	1.3	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.54
1,2-Dichlorobenzene	600	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.93	0.50 U	0.50 U	1.6	1.3	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.6
cis-1,2-Dichloroethene	70	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	4.5	2.1	0.50 U	30	6.5	0.50 U	0.50 U	0.50 U	0.50 U	0.53	0.16 J
1,1-Dichloroethane	50	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1-Dichloroethene	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,2-Dichloroethane	2.0 1000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	4.4 0.50 U	3.1 0.50 U	0.50 U	6.7 0.50 U	1.7 0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	0.50 U	0.50 U	2.6 0.50 U
Dichlorodifluoromethane 1,2-Dichloropropane	1.0	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U	0.50 U	0.27 J 0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U
cis-1,3-Dichloropropene	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,2-Dichloroethene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	5.5	0.16 J	0.50 U	6.3	9.2	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
trans-1,3-Dichloropropene	1.0	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Ethylbenzene	700	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
2-Hexanone	100*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Isopropylbenzene	700*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.9	0.50 U	0.50 U	0.54	1.1	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Methyl acetate Methylcyclohexane	7000 100*	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U
Methylene chloride	3.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
4-Methyl-2-pentanone	100*	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U	5.0 U
Methyl tert-butyl ether	70	0.50 U	0.50 U	0.50 U	0.50 U	0.17 J	0.83	36	0.54	1.2	7.2	25	0.31 J	0.50 U	0.50 U	6.1	0.50 U	0.50 U
Styrene	100	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Tetrachloroethene	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.6	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2,2-Tetrachloroethane	1.0 600	0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U	0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	0.50 U
Toluene 1,2,4-Trichlorobenzene	9.0	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	0.30 J 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.16 J	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U
1,2,3-Trichlorobenzene	100*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.16 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichloroethene	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	2.3	0.22 J	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	1.5
1,1,1-Trichloroethane	30	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloroethane	3.0	0.50 U	0.50 U	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Trichlorofluoromethane	2000	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
1,1,2-Trichloro-1,2,2-trifluoroethane	100*	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
o-Xylene m,p-Xylene	1000 1000	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.19 J	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U
Vinyl Chloride	1.0	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	44	0.50 U	0.50 U	6.7	76	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U
Metals	1.0	0.00	0.00	5.50	0.00	0.00 0	5.50 0		5.55 0	5.50 0			5.50 0	0.00 0	5.50 0	0.00 0	0.00 0	5.55
Arsenic	3.0	1.0 U	2.6	1.0 U	1.6	NS	3.0	170	1.7	1.0 U	300	4.0	1.0 U	2.4	1.0 U	1.0 U	1.3	1.0 U
Pesticides	0.0	1.0 0	2.0	1.0		1,5	5.5			1.0		4.0	1.0		1.0 0	1.0 0	1.0	1.5 0
alpha-BHC	0.02	0.0047 U	0.0049 U	0.0045 U	0.0045 U	NS	0.0047 U	0.43	0.0050	0.0045 U	1.1	0.56	0.0054 U	0.0050 U	0.0049 U	0.026	0.0051 U	0.025
beta-BHC	0.04	0.0047 U	0.0049 U	0.0045 U	0.0045 U	NS	0.0047 U	0.0046 U	0.0051	0.0045 U	0.48	0.24	0.0054 U	0.0050 U	0.0049 U	0.0045 U	0.0051 U	0.0046 U
delta-BHC	100	0.0047 UJ	0.0049 U.	J 0.0063 J	0.0045 UJ	NS	0.0047 UJ	2.1 J	0.016 J	0.0045 UJ	J 2.4 J	2.1 J	0.0054 UJ	0.0050 UJ	0.0049 U.	0.0045 UJ	0.0051 U.	J 0.0083 J
gamma-BHC (Lindane)	0.03	0.0047 U	0.0049 U	0.0045 U	0.0045 U	NS	0.0047 U	0.0046 U	0.0046 U	0.0045 U	0.0050 U	0.0046 U	0.0054 U	0.0050 U	0.0049 U	0.0045 U	0.0051 U	0.029
Herbicides				<u> </u>			<u> </u>	<u> </u>		<u> </u>	<u> </u>				<u> </u>	<u> </u>		
Dinoseb Notes: Bold italizes font with shading deno	7.0		<u> </u>	<u> </u>	l				l							0.25 U		2.6 J

Notes: Bold italizes font with shading denotes compound exceeding remediation goal. Remediation goals from NJDEP's Class IIA Groundwater Quality Standards (GWQS). * denotes RGs from 4th Quarter Long-Term Monitoring Event Report, HDR/OBG May, 2010.

U - Not detected above reported quantitation limit, J - Value estimated, R - Value may be biased high, L - Value may be biased low. NJ- Presumptive evidence analyte is present and reported as a tentative identification. Reported value is an estimate.

N - The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification". NS - Analyte sample not collected.

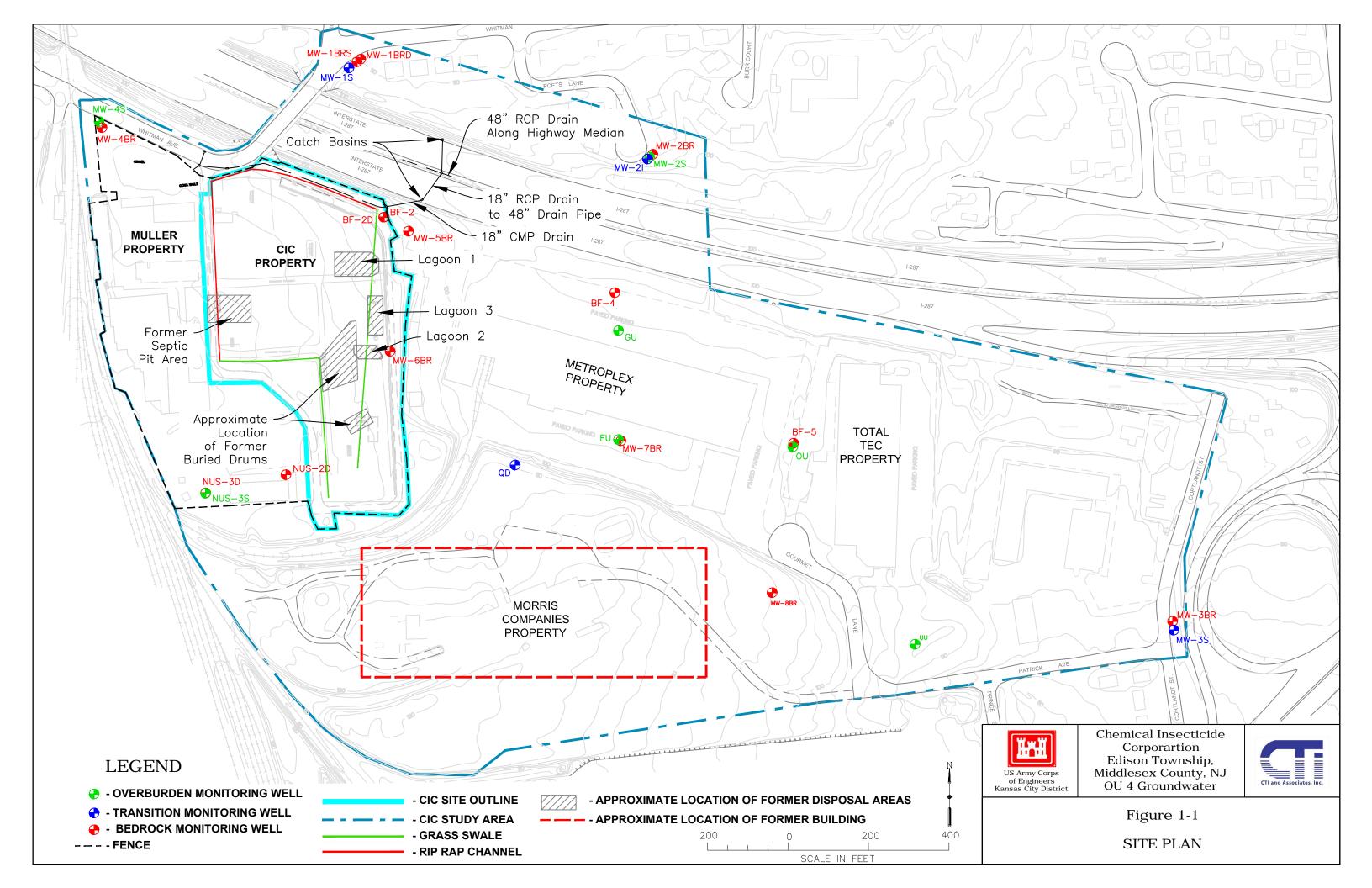
Table 4-3
QA Sample Laboratory Analytical Results - Summer 2014 Sample Event
Chemical Insecticide Corporation - Edison Township, Middlesex County, New Jersey
Operable Unit 4 (OU4) - Groundwater

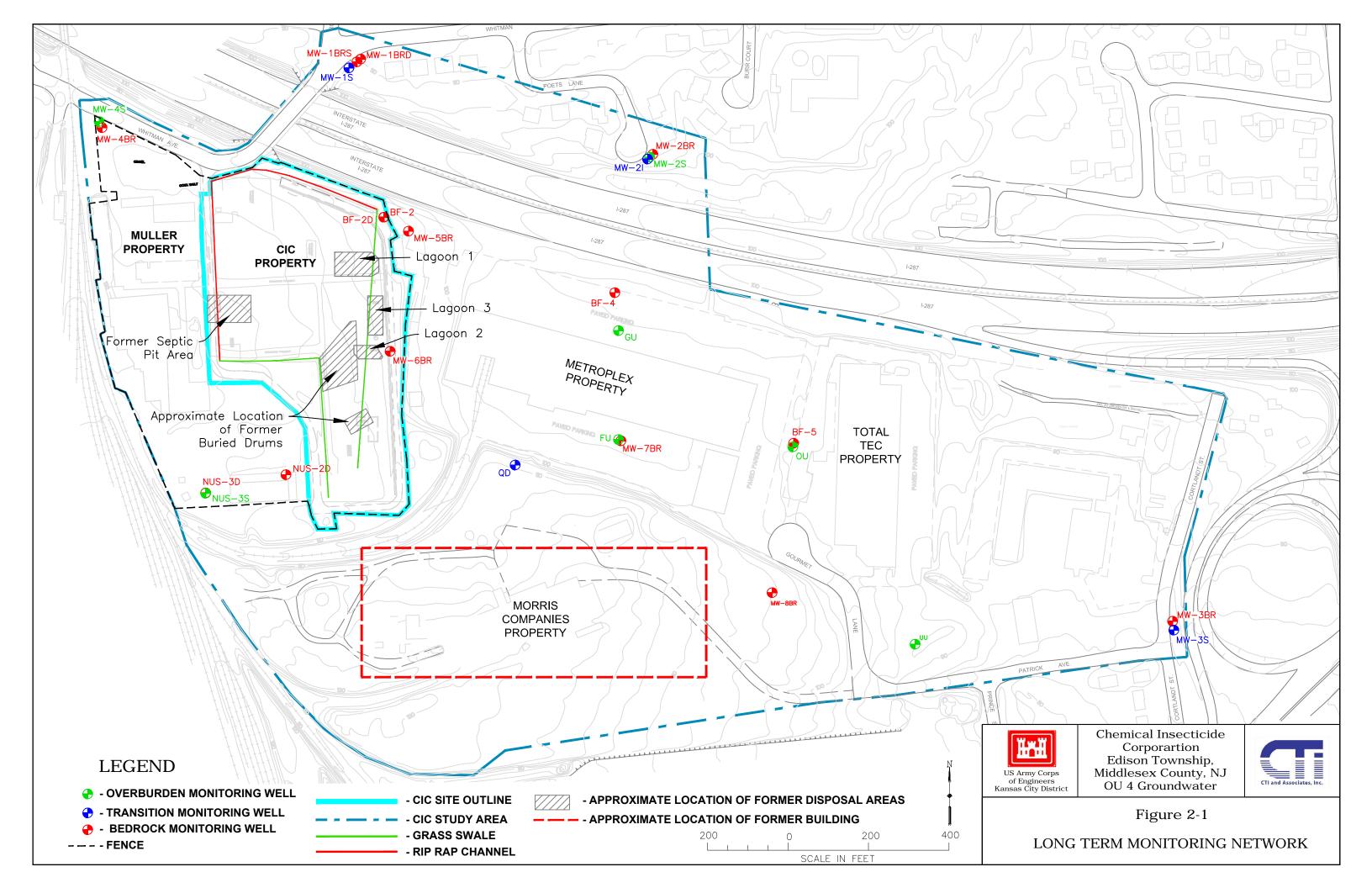
Well Location	TB-1	ER-1	TB-2	ER-2	TB-3	ER-3
Sample Date	09/28/2014	09/29/2014	09/30/2014	09/30/2014	10/01/2014	10/01/2014
Units	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L
Volatile Organic Compounds	ug/ L	ug/L	ug/L	ug/L	ug/L	ug/ L
Acetone	2.8 J	3.8 J	3.9 J	5.0 U	48	5.0 U
Benzene	0.50 U					
Bromochloromethane	0.50 U					
Bromodichloromethane	0.50 U					
Bromoform	0.50 UJ	0.50 UJ	0.50 UJ	0.50 U	0.50 U	0.50 U
Bromomethane	0.50 U					
2-Butanone	5.0 U					
Carbon Disulfide Carbon tetrachloride	0.50 U 0.50 U					
Chlorobenzene	0.50 U					
Chloroethane	0.50 U					
Chloroform	0.50 U					
Chloromethane	0.50 U					
Cyclohexane	0.50 U					
Dibromochloromethane	0.50 U					
1,2-Dibromo-3-chloropropane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U
1,2-Dibromoethane	0.50 U					
1,3-Dichlorobenzene	0.50 U					
1,4-Dichlorobenzene	0.50 U					
1,2-Dichlorobenzene cis-1,2-Dichloroethene	0.50 U 0.50 U					
1,1-Dichloroethane	0.50 U					
1,1-Dichloroethene	0.50 U					
1.2-Dichloroethane	0.50 U					
Dichlorodifluoromethane	0.50 U					
1,2-Dichloropropane	0.50 U					
cis-1,3-Dichloropropene	0.50 U					
trans-1,2-Dichloroethene	0.50 U					
trans-1,3-Dichloropropene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U
Ethylbenzene	0.50 U					
2-Hexanone	5.0 U					
Isopropylbenzene	0.50 U 0.50 U	0.50 U				
Methyl acetate Methylcyclohexane	0.50 U	0.50 U 0.50 U				
Methylene chloride	0.50 U					
4-Methyl-2-pentanone	5.0 U					
Methyl tert-butyl ether	0.50 U					
Styrene	0.50 U					
Tetrachloroethene	0.50 U					
1,1,2,2-Tetrachloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U
Toluene	0.50 U					
1,2,4-Trichlorobenzene	0.50 U					
1,2,3-Trichlorobenzene	0.50 U	0.50 U	0.50 U	0.50 U	0.50 U 0.50 U	0.50 U
Trichloroethene 1,1,1-Trichloroethane	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U 0.50 U	0.50 U	0.50 U 0.50 U
1.1.2-Trichloroethane	0.50 U	0.50 U	0.50 U	0.50 U	0.50 UJ	0.50 U
Trichlorofluoromethane	0.50 U					
1,1,2-Trichloro-1,2,2-trifluoroethane	0.50 U					
o-Xylene	0.50 U					
m,p-Xylene	0.50 U					
Vinyl chloride	0.50 U					
Metals						
Arsenic				1.0 U		1.0 U
Pesticides						
alpha-BHC				0.0050 U		0.0045 U
beta-BHC				0.0050 U		0.0045 U
delta-BHC				0.0050 UJ		0.0045 UJ
gamma-BHC (Lindane)				0.0050 U		0.0045 U
Herbicides				0.05.11		0.05.11
Dinoseb Notes:				0.25 U		0.25 U

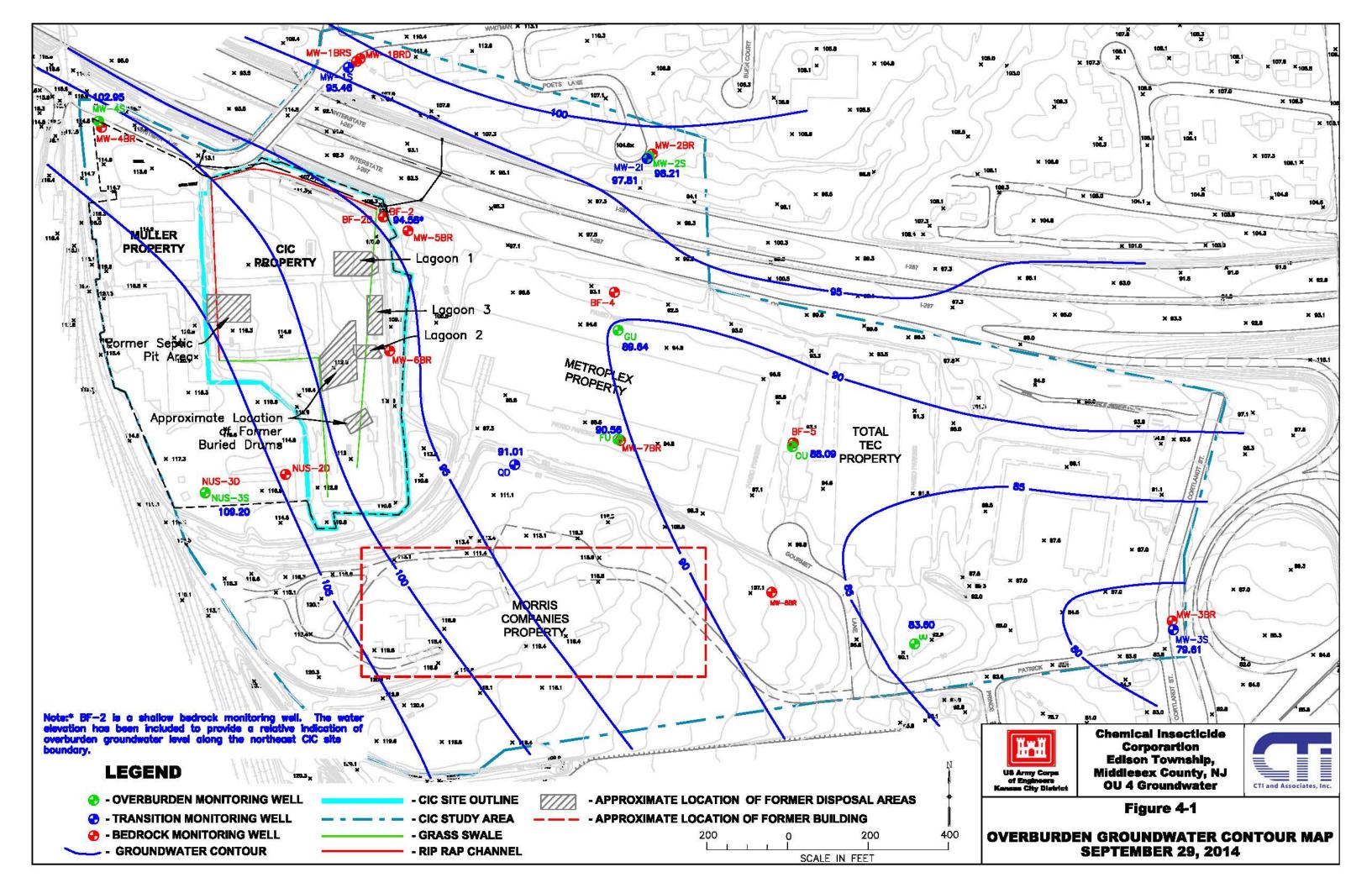
Notes:

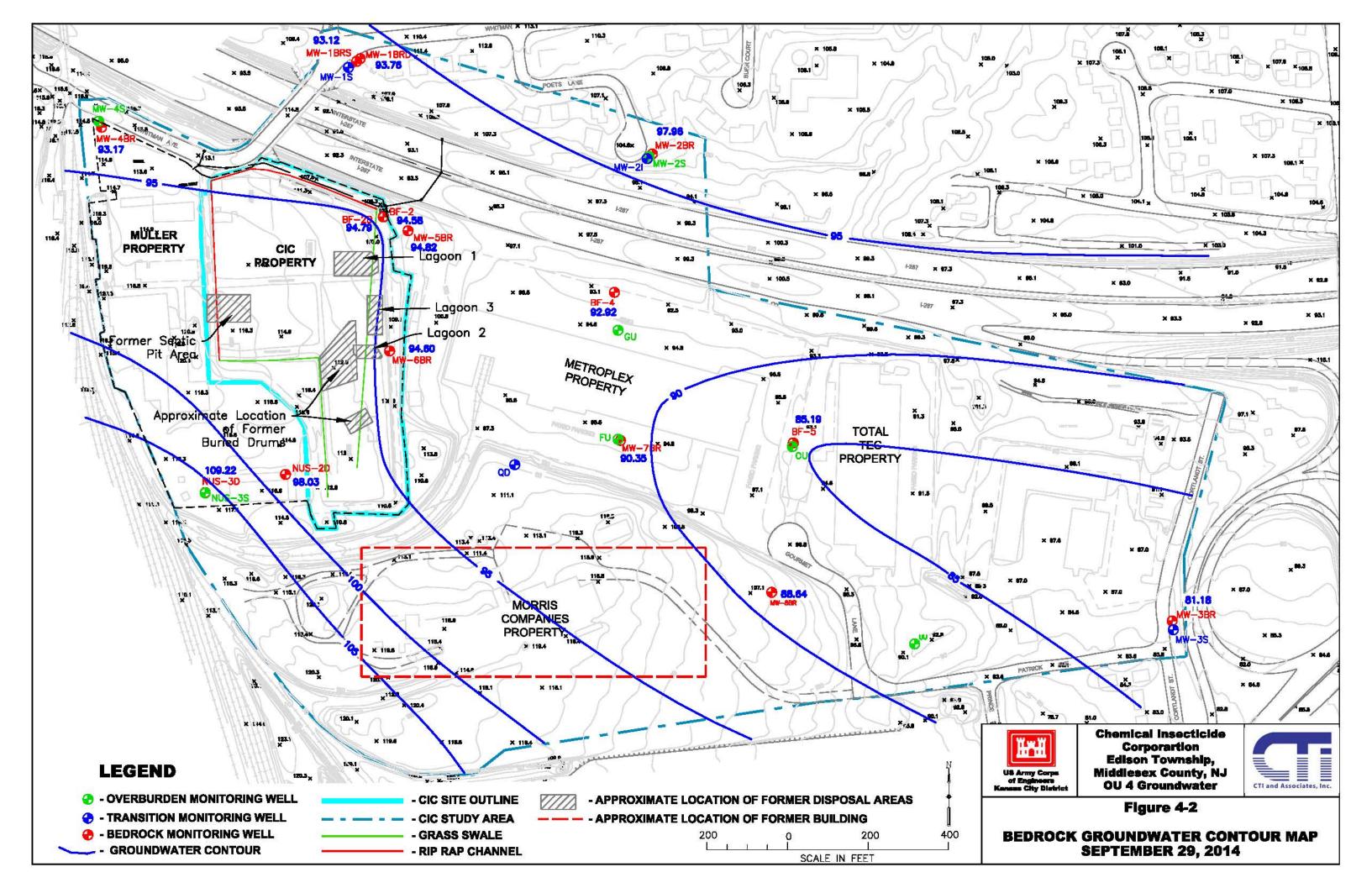
U - Not detected abovereported quantitation limit, J - Value estimated, L - Value may be biased low, NJ - Presumtive evidence analyte is present.

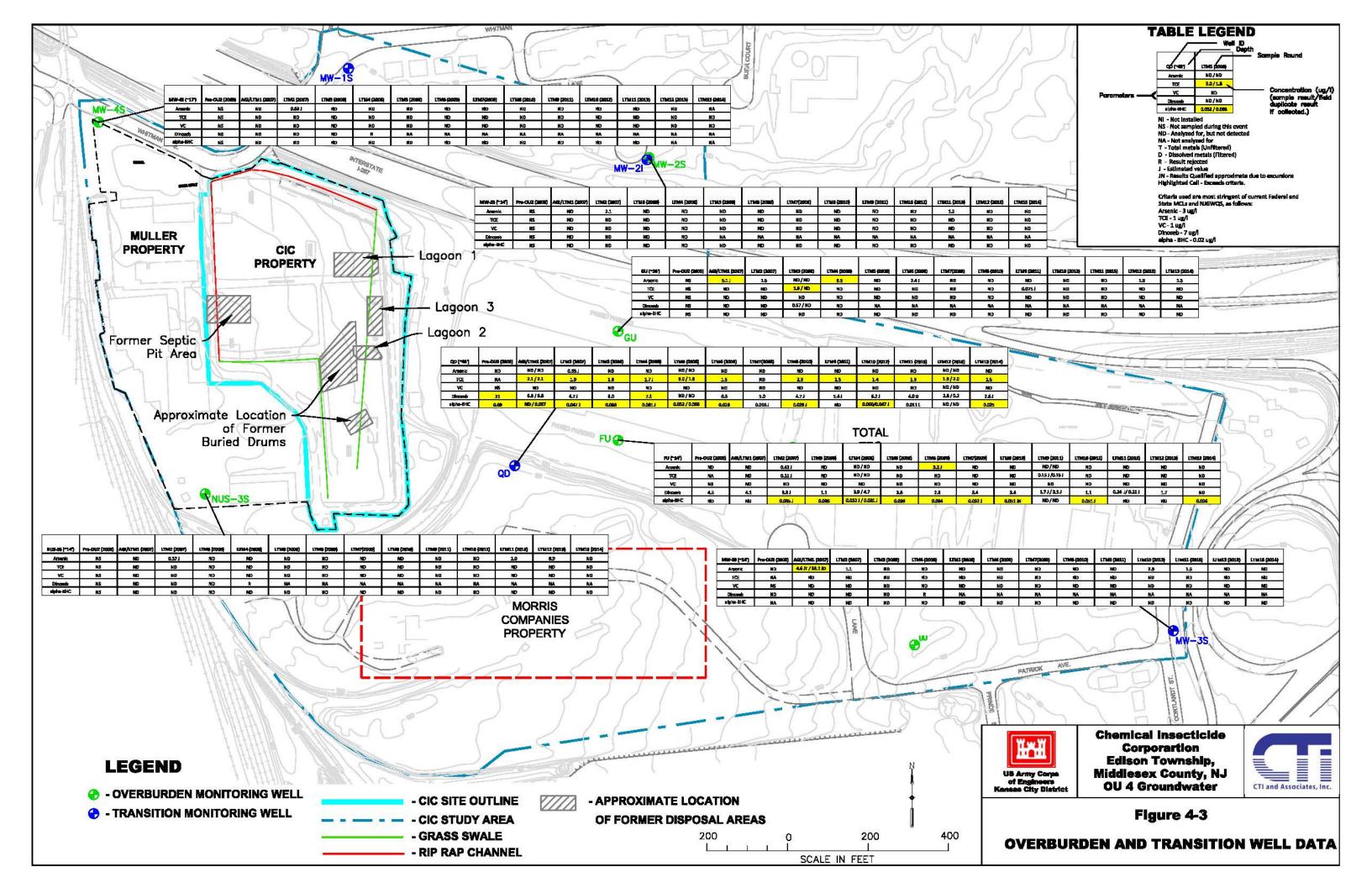
ER - Equipment Rinsate sample, TB - Trip Blank sample.

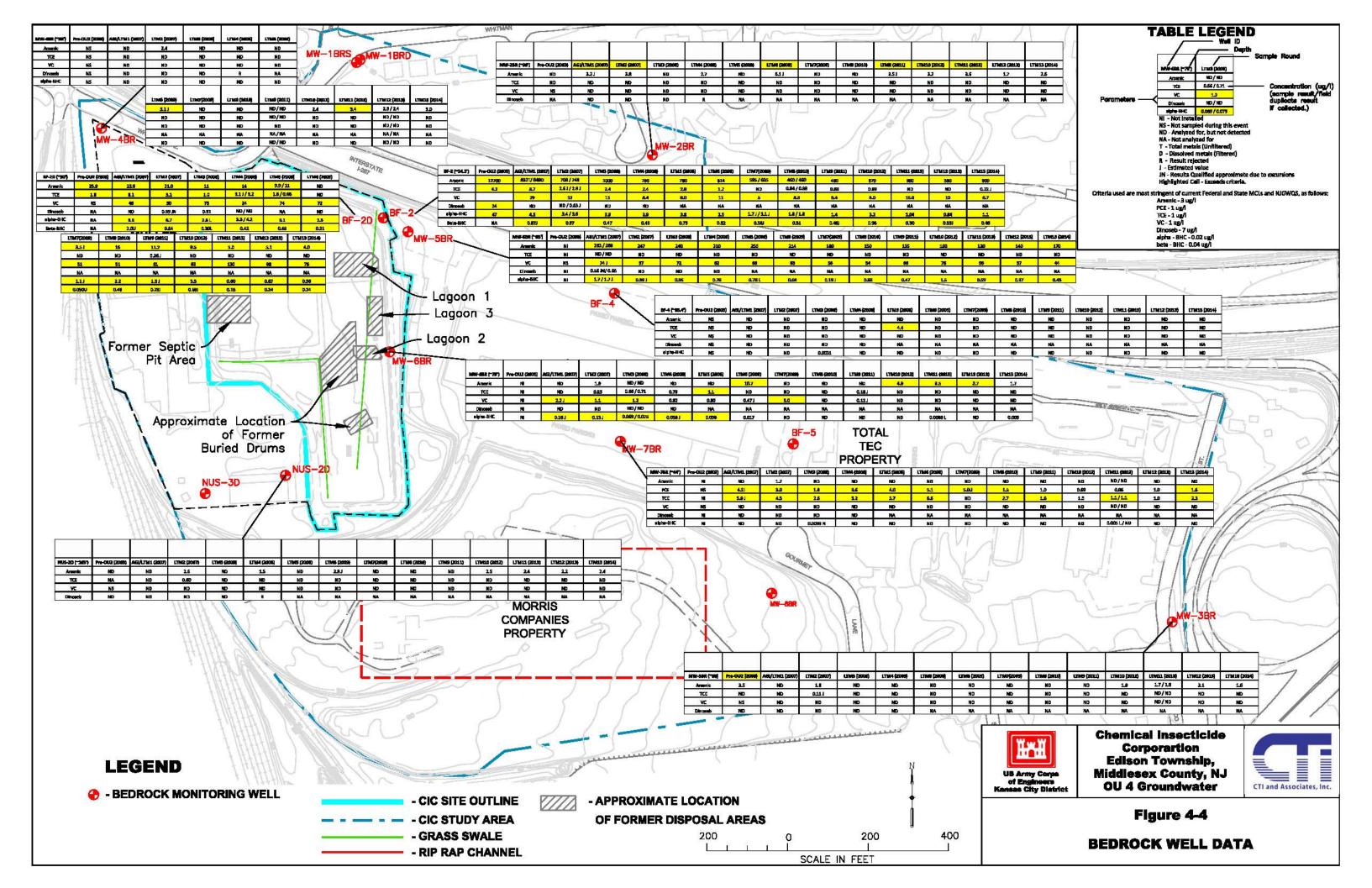












Appendix A

USEPA Well Assessment Checklists (w/Water Level Measurements)



STATIC WATER ELEVATIONS

Project Name

PROJECT NUMBER

GEOLOGIST/

PROJECT LOCATION EDISON GAUGING Min

ENGINEER

METHOD

MiniRae PID and Electronic Interface Probe

WELL NUMBER	PID READING	DEPTH TO WATER (FEET)	WELL DEPTH (FEET)	STATIC WATER ELEVATION (FEET)
NU5-35	0.0	11.44'	16,60	SILTY
NU5-30	0.0	10.80'	40.30	
NU5-20	0.0	18.41'	111.45	
MW-45	0.0	15,34'	18.70	
MW-4BR	0.0	24.11'	61.23	
MW-3BR	0.0	6.67	40.20	
MW-35	0.0	8.79'	15.60	
UU	0.0	12.13	19.02	
MW-8BR	0.0	16.65	63.24	
BF-5	0.0	10.12	35,10	
OU	0.0	6.61	8.10	
QD	0.0	19.92	47.70	
MW-7BR	0.0	5,45	44.20	
FU	0.0	5.05	13.65	
60	0.0	5.61	35.45	
BF-4	0.0	1,10	85.10	
MW-6BR	0.0	14.09	78.55	
BF-20	02	14.69	91.38	
BF-2	0.0	10.74	34.03	
5-BR	0.0	9.85	63.53	
HU-2BR	0.0	6052	90.50 5	1474
MW-25	0.0	6.55	13.34	
Mu-ZI	0.0	6,93	34.67	
MU-1 BRO	0.0	17.38 18.27 15.93	99,50	
MW-1 BRS	0.0	18.27	44.90	_
MW-15	0.0	15.93	16.95	

NE - No Elevation Recorded

ND - Not Detected

NA - Not Applicable

	EPA Region 2 Superf	und Well Assessment C	hecklist
Facility Information	The state of the s	THE PERSON	
Site Name:	CIC		
Site Address:	30 Whitman Ave		
Site County:	Middlesex		
Site State:	New Jersey		
EPA Site ID Number:	NJD 980484653		———— —
Site Owner:	Edison Township		*
EPA Project Manager:	Mark Austin		
Well Locational Information	tyrky2		
State Well ID:	25-38179		
Well Tag ID:	BF-2		-
Well Installation Date:	Unknown		
	From Log	By GPS	
Ground Surface Elevation	106.12		
Latitude	40 31 41.21815		
Longitude	74 22 01.27257		
Northing (State Plane)	617318		
Easting (State Plane)	529088.8		
Cross streets (if applicable):	Gourmet Ln & Patrick Av	re	
GPS Instrument Used:	N/A	Ž.	
Datum:	N/A		-
Accuracy/Precision:	N/A		-
Well Construction Details			TWO STATES OF THE STATES OF TH
well Construction Details	THE PARTY OF THE P		
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*
Well lock/security type:	Master Lock		
Elevation (top of inner casing):	105.32		
Surface Casing Material:	Steel		
Well Casing Material:	Stainless Steel		
Surface Casing Diameter:	8		inches
Well Diameter:	5 3/5		inches
Well Depth (as installed):	34.5		ftbgs
Well Depth (as measured):	34.03		fttoc
Screened Interval:	24.5-34.5		ft
Open Hole Interval:	24.5		ft
Depth to Water:	10:74 9	29-14 0	940 ftbtoc
	Date:		me:

EPA Region 2 Superfur	nd Well Assessment C	hecklist	
Well Headspace Readings	were selected		
Wen reauspace neguings	0.542.55	-	
PID/FID Reading Taken Inside Top of Casing (if applicable)	: <u>O.C</u>	ррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	\		
	LEL:	% LEL	
	O ₂	40% Vol.	
	co:	pm	
	H ₂ O:	↓ ppm	
	.,	'	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		1.30	40.447
	(C)		
Is the concrete pad in good condition?	(Yes	No	
Is the well surface casing in good condition?	Ves	No	
Is the surface casing vertical?	(es	No	
Is there and internal well seal?	(Yes	No	
Has there been physical damage to the well?	Yes		
Does sounding depth match completed depth?	(es)	No No	
Is the measuring point marked? Is the well clearly labeled?		No No	
ris the well clearly labeled? Flush Mount - Is it secure from runoff?		No No	
Flush Mount - is it secure from funding	CES	NO	
Other Comments:			
Recommendations:			SERVICES TO COLUMN TO
Well needs to be redevloped	Van	M(2)	
Well needs to be redevioped Well needs to be resurveyed	Yes Yes	(In)	
Well needs to be resurveyed Well needs to be repaired	Yes		
Well needs to be replaced	Yes		
Well needs to be replaced Well needs to be properly abandoned	Yes	6	
No action necessary	Ves	No	
Comments		7,195	water manne
		1.15	
	P.R. 9.29-14		
Inspected by:	0.20.11		
Date of Inspection: Reviewed By:	9.29.19		(D-:-+)
Reviewed by:			(Print)
-			(Sign)

	EPA Region 2	Superfund We	ell Assessi	ment Checklist		
Facility Information			100			
Site Name:	CIC					
Site Address:	30 Whitman Ave					
Site County:	Middlesex					
Site State:	New Jersey					
EPA Site ID Number:	NJD 980484653					
Site Owner:	Edison Township					
EPA Project Manager:	Mark Austin					
Well Locational Information						
State Well ID:	25-54495					
Well Tag ID:	BF-2D					
Well Installation Date:	Unknown					
	From Log	B	y GPS			
Ground Surface Elevation	108.18					
Latitude	40 31 41.69	549				
Longitude	74 22 01.820	14				
Northing (State Plane)	617366.4					
Easting (State Plane)	529046.4					
Cross streets (if applicable):	Gourmet Ln & Pa	atrick Ave				
GPS Instrument Used:	N/A					
Datum:	N/A					
Accuracy/Precision:	N/A					
Well Construction Details	Control of the Contro	200,000,000,000		110750		
Type of well (circle one)	Flush	Mount	Stick u		Multilevel Wel	*
Well lock/security type:	Master Lock					
Elevation (top of inner casing):	109.48					
Surface Casing Material:	Steel					
Well Casing Material:	Stainless Steel					
Surface Casing Diameter:	6				inches	
Well Diameter:	2				inches	
Well Depth (as installed):	90				ftbgs	
Well Depth (as measured):	91.38				fttoc	
Screened Interval:	80-90				_ft	
Open Hole Interval:	0-80				_ft	
Depth to Water:	14.69	9-29-14		0937	ftbtoc	
*If multilevel well please see attach	Date ed worksheet.			Time:		

EPA Region 2 Superfu	nd Well Assessment	Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable)):	Оррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL: O _{2:} CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition			. Kilseti
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	Destroy (No No No No No No	
Recommendations:		II-INWan	SMEAN TO THE
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	S S S S S S S S S S S S S S S S S S S	
Comments			
Inspected by: Date of Inspection: Reviewed By:	P.RILEY 9.29-14		(Print)

	EPA Region 2 Superfe	und Well Assessment Ch	ecklist	
Facility Information				
Site Name:	CIC			
Site Address:	30 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information				
State Well ID:	25-38181			
Well Tag ID:	BF-4			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	94 37			
Latitude	40 31 39.85076			
Longitude	74 21 54.40638			
Northing (State Plane)	617180.5			
Easting (State Plane)	529619.1			
Cross streets (if applicable):	Gourmet Ln & Patrick Av	/A		
GPS Instrument Used:	N/A			
Datum:	N/A		· · · · · · · · · · · · · · · · · · ·	
Accuracy/Precision:	N/A			
Well Construction Details	A STATE OF THE PARTY OF		PRINTED AND THE PRINTED AND TH	1000
Type of well (circle one)	Flush Mount) Stick up	Multilevel Well*	
Well lock/security type:	Master Lock) Stick up	Multilevel Well	
Elevation (top of inner casing):	94.02			
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel		-	
Surface Casing Diameter:	8		inches	
Well Diameter:	4		inches	
Well Depth (as installed):	85.4		ftbgs	
Well Depth (as measured):	85.10		fttoc	
Screened Interval:	75.4-85.4		ft	
Open Hole Interval:	0-75.4		ft	
Depth to Water:	1,10 9.29	14 09	28 ftbtoc	
Visit in the second sec	Date:		ne:	

e):	О ppm	
LEL:	% LEL	
		
Yes	No)	
	10000000000000000000000000000000000000	供印绘
(Ves)	No	
Yes	No	
Yes	No	
(es)	No	
Yes	™	
©	No	
(FES)	No	
(Es)	No	
Yes	No	
		VIII V
Yes	(6)	
Yes		
Yes	(No)	
Yes		
Yes	No	
Yes	No	
	Water Avenue	
	NEX SERVE	* Maj Jian
PR.		
9-29-14		
		(Print)
	LEL: O₂: CO: H₂O: Yes Yes Yes Yes Yes Yes Yes Yes	LEL:

	EPA Region 2 Superfu	und Well Assessment Chec	klist
acility Information	oxida see aan da		
Site Name:	CIC		
Site Address:	CIC 30 Whitman Ave		
			-
Site County:	Middlesex		
Site State:	New Jersey		
EPA Site ID Number:	NJD 980484653		•
Site Owner:	Edison Township		
EPA Project Manager:	Mark Austin		
Well Locational Information	and the state of t		
State Well ID:	25-38182		
Well Tag ID:	BF-5		
Well Installation Date:	Unknown		
	From Log	By GPS	
Ground Surface Elevation	95.67		
Latitude	40 31 36.14387		
Longitude	74 21 48.68778		
Northing (State Plane)	616806.0		
Easting (State Plane)	530061.2		
Edding (State Fight)	330002.2		
Cross streets (if applicable):	Gourmet Ln & Patrick Av	10	
GPS Instrument Used:	N/A		-
Datum:	N/A		
Accuracy/Precision:	N/A		
		Without Plant Section	
Well Construction Details			
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*
Type of well (circle offe)			
	Master Lock		
Well lock/security type:	95.31		
Well lock/security type: Elevation (top of inner casing):	A DESCRIPTION OF THE PROPERTY		
Well lock/security type: Elevation (top of inner casing): Surface Casing Material:	95.31		
Well lock/security type: Elevation (top of inner casing): Surface Casing Material: Well Casing Material:	95.31 Steel		inches
Well lock/security type: Elevation (top of Inner casing): Surface Casing Material: Well Casing Material: Surface Casing Diameter:	95.31 Steel Stainless Steel		inches inches
Well lock/security type: Elevation (top of inner casing): Surface Casing Material: Well Casing Material: Surface Casing Diameter: Well Diameter:	95.31 Steel Stainless Steel 7 1/4 4 35.35		
Well lock/security type: Elevation (top of inner casing): Surface Casing Material: Well Casing Material: Surface Casing Diameter: Well Diameter: Well Depth (as installed):	95.31 Steel Stainless Steel 7 1/4		inches
Well lock/security type: Elevation (top of inner casing): Surface Casing Material: Well Casing Material: Surface Casing Diameter: Well Diameter: Well Depth (as installed): Well Depth (as measured):	95.31 Steel Stainless Steel 7 1/4 4 35.35		inches ftbgs
Well lock/security type: Elevation (top of inner casing): Surface Casing Material: Well Casing Material: Surface Casing Diameter: Well Diameter: Well Depth (as installed): Well Depth (as measured): Screened Interval: Open Hole Interval:	95.31 Steel Stainless Steel 7 1/4 4 35.35		inches ftbgs fttoc
Well lock/security type: Elevation (top of inner casing): Surface Casing Material: Well Casing Material: Surface Casing Diameter: Well Diameter: Well Depth (as installed): Well Depth (as measured): Screened Interval:	95.31 Steel Stainless Steel 7 1/4 4 35.35 35.10 25.35-35.35	1.14 08.	inches ftbgs fttoc ft

EPA Region 2 Superfu	nd Well Assessment	Checklist	
Well Headspace Readings			to it Grantit
PID/FID Reading Taken Inside Top of Casing (if applicable):	Oppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL: O _{2:} CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		111111111111111111111111111111111111111	4個個日
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff? Other Comments:	Yes Yes	No No No No No No No No	
Recommendations:		17 TANE 111	
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	<u>डिक्र</u> किक्र है है	
Comments			Tolkholdt
		MONTH TO THE TOTAL OF THE TOTAL	
Inspected by: Date of Inspection: Reviewed By:	P.RILEY	/	(Print) (Sign)

	EPA Region 2 Super	rfund Well Assessm	ent Checklist		
Facility Information		REMOVED TO SUIT	W. Holand		MITTER
Site Name:	CIC				
Site Address:	125 Whitman Ave				
Site County:	Middlesex				
Site State:	New Jersey				
EPA Site ID Number:	NJD 980484653				
Site Owner:	Edison Township				
EPA Project Manager:	Mark Austin				
Well Locational Information				Lower March	
State Well ID:	25-38175				
Well Tag ID:	FU				
Well Installation Date:	Unknown				
	From Log	By GPS	1		
	FIOHILOG	by Gr3	=		
Ground Surface Elevation	96.16				
Latitude	40 31 36.24288		┪		
Longitude	74 21 54.31350		-		
Northing (State Plane)	616815.4		_		
Easting (State Plane)	529626.8		-		
Lasting (State Fidine)	1 323020.0				
Cross streets (if applicable):	Gourmet Ln & Patrick A	lve			
GPS Instrument Used:	N/A				
Datum:	N/A			-	
Accuracy/Precision:	N/A				
	ACTION TO THE RESIDENCE	LATE IN ELIVERS	V E 12 Mars 18	mark control of the	
Well Construction Details			1		
Type of well (circle one)	Flush Moun	Stick up		Multilevel Well*	
Well lock/security type:	Master Lock				
Elevation (top of inner casing):	95.61				
Surface Casing Material:	Steel				
Well Casing Material:	Stainless Steel				
Surface Casing Diameter:	7 1/4			inches	
Well Diameter:	5 3/8			inches	
Well Depth (as installed):	15			ftbgs	
Well Depth (as measured):	13.65			fttoc	
Screened Interval:	5.0-15.0			ft	
Open Hole Interval:	0-5.0			ft	
				-	
Depth to Water:	5005 9-29-1	14	0919	ftbtoc	

EPA Region 2 Superfu	nd Well Assessment	t Checklist
Well Headspace Readings	h ibaşıcılla	
PID/FID Reading Taken Inside Top of Casing (if applicable): 0	O ppm
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:	% LEL 40% Vol. pm ppm
Do readings indicate unsafe conditions exist?	Yes	No
Well Condition		Taggities and the state of the
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - is it secure from runoff?	Yes Yes Yes Yes Yes	NO N
Other Comments: PAD UPDE SURFICE OF	ASPHACT,	UPTER POULS
Recommendations:		
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	No No
Comments		and the second s
Inspected by: Date of Inspection: Reviewed By:	P.RICEY 9.29-1	(Print) (Sign)

	EPA Region 2 Superf	und Well Assessment Chec	klist	
Facility Information				- Salvin
Site Name:	CIC			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information				
State Well ID:	25-38177			
Well Tag ID:	GU			
Well Installation Date:	Unknown			
	From Log	By GPS		
	95.8	- 1, 0, 0		
Ground Surface Elevation				
Latitude	40 31 38.90440			
Longitude	74 21 54.29935			
Northing (State Plane)	617084.7			
Easting (State Plane)	529627.5			
Cross streets (if applicable):	Gourmet Ln & Patrick Av	/e		
GPS Instrument Used:	N/A			
Datum:	N/A			
Accuracy/Precision:	N/A			
Well Construction Details	The second		The state of the s	Part I
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*	
Well lock/security type:	Master Lock			
Elevation (top of inner casing):	95.25			
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel			
Surface Casing Diameter:	7 1/4		inches	
Well Diameter:	4		inches	
Well Depth (as installed):	36		ftbgs	
Well Depth (as measured):	35.45		fttoc	
Screened Interval:	26-36		ft	
Open Hole Interval:	0-26		ft	
Depth to Water:	5.61 9-29			
	Date:	Time		

EPA Region 2 Superfur	nd Well Assessment	Checklist	
Well Headspace Readings			大声中 医全体 建
PID/FID Reading Taken Inside Top of Casing (if applicable)	: 0.0	О ррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		TO UN	the solution
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	Yes Yes Yes Yes	NO N	
Recommendations:			Move to the
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	E CO E SO NO	
Comments			The statement
Inspected by:	P.RILES	Y	100
Date of Inspection:	9-29-1	14	(Print) (Sign)

	EPA Region 2 Superf	und Well Assessment Checkl	st
Facility Information	37年公里加加 · 64		200 2 7 7 1
Site Name:	CIC		
Site Address:	30 Whitman Ave		
Site County:	Middlesex		
Site State:	New Jersey		-
EPA Site ID Number:	NJD 980484653		
Site Owner:	Edison Township		- 12
EPA Project Manager:	Mark Austin		
Well Locational Information			
State Well ID:	25-54505		
Well Tag ID:	MW-1 BRD		
Well Installation Date:	Unknown		
	From Log	By GPS	
		Dy 0. 3	
Ground Surface Elevation	111.59		
Latitude	40 31 45.57362		
Longitude	74 21 02.55979		
Northing (State Plane)	617758.6		
Easting (State Plane)	528988.7		
	· · · · · · · · · · · · · · · · · · ·		
Cross streets (if applicable):	Whitman Ave & Rose St		
GPS Instrument Used:	N/A		
Datum:	N/A		-
Accuracy/Precision:	N/A		
Well Construction Details			
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*
Well lock/security type:	Master Lock		
Elevation (top of inner casing):	111.14		
Surface Casing Material:	Steel		
Well Casing Material:	Stainless Steel		
Surface Casing Diameter:	11		inches
Well Diameter:	2		inches
Well Depth (as installed):	100		ftbgs
Well Depth (as measured):	99.50		fttoc
Screened Interval:	90-100		ft
Open Hole Interval:	0-90		ft
Depth to Water:	17.38 9-29		ftbtoc
*If multilevel well please see attach	Date: ed worksheet.	Time:	

EPA Region 2 Superfur	nd Well Assessmer	nt Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable)	·	?- € ppm	
	/ 		
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:	% LEL	
	O ₂ ;	40% Vol.	
	co:	pm	
	H₂O:	ppm	
		1	
Do readings indicate unsafe conditions exist?	Yes	(No)	
Well Condition		- INVESTIGATION IN	Silmil
Is the concrete pad in good condition?	Nes	No	
Is the well surface casing in good condition?	(es)	No	
Is the surface casing vertical?	(es)	No	
Is there and internal well seal?	(FES)	No PR	
Has there been physical damage to the well?	Yes	No	
Does sounding depth match completed depth?	(Ces	No	
Is the measuring point marked?	(YES)	No	
Is the well clearly labeled?	(Yes)	No	
Flush Mount - Is it secure from runoff?	Yes	No	
Other Comments:			
Recommendations:			SELECTION
		(C)	
Well needs to be redevloped	Yes	(No	
Well needs to be resurveyed	Yes	6 0	
Well needs to be repaired	Yes	CNO/	
Well needs to be replaced	Yes	(No.	
Well needs to be properly abandoned No action necessary	Yes	No	
Comments		- GHOME STATE	- Inchine
3919 20 42 100			
	4		
		H.3.	
TAL STATE OF STATE OF THE STATE			
Inspected by:	P.RILEY		
Date of Inspection:	9-29-10	4	
Reviewed By:		(Pri	nt)
		(Si _l	
_		(0)	

	EPA Region 2 Superf	und Well Assessment Che	cklist
Facility Information	Espain le la		
Site Name:	CIC		
Site Address:	30 Whitman Ave		•
Site County:	Middlesex		——————————————————————————————————————
Site State:	New Jersey		
EPA Site ID Number:	NJD 980484653		
Site Owner:	Edison Township		
EPA Project Manager:	Mark Austin		
	IVIAI K AUSUIT		
Well Locational Information			
State Well ID:	25-54506		
Well Tag ID:	MW-1 BRS		
Well Installation Date:	Unknown		
	From Log	By GPS	
Ground Surface Elevation	111 69		
Latitude	40 31 45.49806		
Longitude	74 22 02.68000		
Northing (State Plane)	617750.9		
Easting (State Plane)	528979.4		
Lasting (State Flatle)	320373.4		
Cross streets (if applicable):	Whitman Ave & Rose St		
GPS Instrument Used:	N/A		
Datum:	N/A		Te/n
Accuracy/Precision:	N/A		
		TO SHEET OF STREET	
Well Construction Details			
Type of well (circle one)	(Flush Mount	Stick up	Multilevel Well*
Well lock/security type:	Master Lock		
Elevation (top of inner casing):	111.39		
Surface Casing Material:	Steel		-
Well Casing Material:	Stainless Steel		
Surface Casing Diameter:	7 1/4		inches
Well Diameter:	2		inches
Well Depth (as installed):	45		ftbgs
Well Depth (as measured):	44.90		fttoc
Screened Interval:	35-45		ft
Open Hole Interval:	0-35		ft
open note interval.			
Depth to Water:	18.27 9-29	-14 10	14 ftbtoc

EPA Region 2 Superfun	nd Well Assessme	nt Checklist	
Well Headspace Readings			The Block of the United
PID/FID Reading Taken Inside Top of Casing (if applicable):		DO ppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	(h)	
Well Condition		any fract	24.621.4
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	September 1	No No No No No No No	
Other Comments: Recommendations:			
Well needs to be redevloped	Yes	MS	
Well needs to be resurveyed	Yes	(NO)	
Well needs to be repaired	Yes	No	
Well needs to be replaced	Yes	KO2	
Well needs to be properly abandoned No action necessary	Yes	No	
Comments			
TWO IN A STATE OF THE PARTY OF THE STATE OF			
Inspected by: Date of Inspection: Reviewed By:	f. k128 9.29	3/14	(Print) (Sign)

	EPA Region 2 Superf	und Well Assessment Checklis	t
facility information			THE TRUE WAS A
Site Name:	CIC		
Site Address:	30 Whitman Ave		
Site County:	Middlesex		
Site State:	New Jersey		
EPA Site ID Number:	NJD 980484653		-
Site Owner:	Edison Township		
EPA Project Manager:	Mark Austin		
Well Locational Information			
State Well ID:	25-54507	×	
Well Tag ID:	MW-1S		
Well Installation Date:	Unknown		
	From Log	By GPS	
Ground Surface Elevation	112.01		
Latitude	40 31 45.35210		
Longitude	74 22 02.93646		
Northing (State Plane)	617736.1		
Easting (State Plane)	528959.6		
Cross streets (if applicable):	Whitman Ave & Rose St		
GPS Instrument Used:	N/A		
Datum:	N/A		
Accuracy/Precision:	N/A		•
Well Construction Details		SWITCHES ALTERNATION	
	Flush Mount	Stickup	Multilevel Well*
Type of well (circle one)	Master Lock	Stick up	Multilevel Well*
Well lock/security type:			
Elevation (top of inner casing):	111.39 Stool		
Surface Casing Material:	Steel Steel		
Well Casing Material:	Stainless Steel 7 1/4		inches
Surface Casing Diameter: Well Diameter:	2		inches
Well Depth (as installed):	17		ftbgs
Well Depth (as measured):			fttoc
Screened Interval:	16.95 7.0-17.0		ft
Open Hole Interval:	0-7.0		—ft
Depth to Water:		14 1008	ftbtoc
Departo water.	15.43 9-19-1 Date:	Time:	
*If multilevel well please see attach		inite.	

EPA Region 2 Superfu	nd Well Assessment	Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable)): 0.1	<u>ррт</u>	
Martin Con (CC) Motor Boodings Takon (if applicable)	****		
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:	% LEL	
	O _{2:}	40% Vol.	
	co:	pm	
	H ₂ O:	ррт	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition	START H	TI (ENVIRO	Ent. adjavi
Is the concrete pad in good condition?	Nes	No	
Is the well surface casing in good condition?	(a) (a) (b)	No	
Is the surface casing vertical?	(Yes)	No	
Is there and internal well seal?	es	No	
Has there been physical damage to the well?	Yes	©	
Does sounding depth match completed depth?	(Yes)	No	
Is the measuring point marked?	YES	No	
Is the well clearly labeled?	(Tes)	No	
Flush Mount - Is it secure from runoff?	(ES)	No	
Other Comments:			
Recommendations:		arthy are of those U	ME TE
Well needs to be redevloped	Yes	No	
Well needs to be resurveyed	Yes	(No)	
Well needs to be repaired	Yes	(10000000000000	
Well needs to be replaced	Yes	999	
Well needs to be properly abandoned	Yes		
No action necessary	Yes	No	
Comments	the said little of	NAME OF THE PARTY	- Airpenhot
		× × ×	
A company of the contract of t			
Inspected by:	PR		
Date of Inspection:	0-19-16	j	
Reviewed By:	721.		(Print)
Mevicaco Dy			(Sign)
·-			(3)Bit)

	EPA Region 2 Supe	erfund Well Assessment Checklist	
Facility Information	后位的表示的		A Company of the Comp
Site Name:	CIC		
Site Address:	125 Whitman Ave		**
Site County:	Middlesex		
Site State:	New Jersey		
EPA Site ID Number:	NJD 980484653		-
Site Owner:	Edison Township		
EPA Project Manager:	Mark Austin		
Well Locational Information			
State Well ID:	25-54502		
Well Tag ID:	MW-2BR		
Well Installation Date:	Unknown		
		320	
	From Log	By GPS	
Ground Surface Elevation	104.80	5	
Latitude	40 31 43.22566		
Longitude	74 21 53.18063		
Northing (State Plane)	617522.1		
Easting (State Plane)	529713.2		
	14/1-14 A		
Cross streets (if applicable): GPS Instrument Used:	Whitman Ave & Poet's	s Ln	
	N/A		
Datum: Accuracy/Precision:	N/A N/A		
	14/1		
Well Construction Details			
Type of well (circle one)	Flush Mou	nt) Stick up	Multilevel Well*
Well lock/security type:	Master Lock		
Elevation (top of inner casing):	104.48		
Surface Casing Material:	Steel		
Well Casing Material:	Stainless Steel		
Surface Casing Diameter:	4		inches
Well Diameter:	2		inches
Well Depth (as installed):	90		ftbgs
Well Depth (as measured):	90,50		fttoc
Screened Interval:	80-90		_ft
Open Hole Interval:	0-80		_ft
Depth to Water:	6.52' 9.29	7-14 0958	ftbtoc
Depth to Water.	Date:	Time:	- 1

EPA Region 2 Superfur	nd Well Assessm	ent Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable)	: 0	7-O ppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):	-		
Multi-das/Coi Meter Reduings Taken (II applicable).	LEL:	% LEL	
	O _{2:}	40% Vol.	
λ	CO:	pm	
	H ₂ O:	ppm	
		- Ppin	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition	lands of	The Market Control	
Is the concrete pad in good condition?	Res	No	
Is the well surface casing in good condition?	ARIA ARIA ARIA ARIA ARIA ARIA ARIA ARIA	No	
Is the surface casing vertical?	(Es)	No	
Is there and internal well seal?	res	No	_
Has there been physical damage to the well?	Yes	(No *	
Does sounding depth match completed depth?	Yes		
Is the measuring point marked?	6	No	
Is the well clearly labeled?	(G)	No	
Flush Mount - Is it secure from runoff?	(Tes)	No	
Other Comments: ** VERY SIG	LTY ON	Boîrom,	
Recommendations:		/ 是是是如答。	
Well needs to be redevloped	Yes	No	
Well needs to be resurveyed	Yes	No	
Well needs to be repaired	Yes	60	
Well needs to be replaced	Yes	OTO .	
Well needs to be properly abandoned	Yes	No	
No action necessary	(Yes	No	
Comments			CV CEMUL
V V - 2		MAN TO THE THE STATE OF	
	00		
Inspected by:	P.RIL	167	
Date of Inspection:	9.2	9-14	
Reviewed By:			(Print)
_			(Sign)
-			

	EPA Region 2 Superf	und Well Assessment Che	ecklist	
Facility Information	of the second of the	1000年100日	april 10 ct	ri din
Site Name:	CIC			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information	ALC: UNIVERSITY OF THE	#		M
State Well ID:	25-54503			
Well Tag ID:	MW-21			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	104.99			
Latitude	40 31 43.10885			
Longitude	74 21 53.34767			
Northing (State Plane)	617510.3			
Easting (State Plane)	529700.4			
Cross streets (if applicable):	Whitman Ave & Poet's L	n		
GPS Instrument Used:	N/A			
Datum:	N/A			
Accuracy/Precision:	N/A		1	
Well Construction Details	And John State Sta			N T
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*	
Well lock/security type:	Master Lock	Stick up	William Ven	
Elevation (top of inner casing):	104.74		*	
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel		-	
Surface Casing Diameter:	7 1/4		inches	
Well Diameter:	2		inches	
Well Depth (as installed):	35		ftbgs	
Well Depth (as measured):	34.67		fttoc	
Screened Interval:	25-35		ft	
Open Hole Interval:	0-25			
	6.93 9-29-1	14 095		
Depth to Water:	(017)	19 019	,) ILDIOL	

EPA Region 2 Superfu	nd Well Assessmen	t Checklist	
Well Headspace Readings			NA LETTE
PID/FID Reading Taken Inside Top of Casing (if applicable): _ O - (Оppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):	λ.		
	LEL:	% LEL	
	O _{2:}	40% Vol.	
	CO:	pm	
	H₂O:	ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition	Na Park	DELCT DIAWN 12	1709.00
Is the concrete pad in good condition?	(Ves)	No	
Is the well surface casing in good condition?	Yes	No	
Is the surface casing vertical?	(Yes)	No	
Is there and internal well seal?	Yes Yes (es)	No	
Has there been physical damage to the well?	Yes	No	
Does sounding depth match completed depth?	(Yes)	No	
Is the measuring point marked?	(Yes)	No	
Is the well clearly labeled?	(es)	No	
Flush Mount - Is it secure from runoff?	Ves	No	
Other Comments:			
Recommendations:			
Well needs to be redevloped	Yes	(No)	
Well needs to be resurveyed	Yes	No	
Well needs to be repaired	Yes	6 0	
Well needs to be replaced	Yes	No	
Well needs to be properly abandoned	Yes	(No)	
No action necessary	Yes	No	
Comments		to the state of the	- mantion
THE TELL INCIDES AS TELEMENT OF	No. of the second	MONTH OF THE STATE OF	
t	P. RILL	54	
Inspected by:	9200	W	
Date of Inspection: Reviewed By:	7291	7	Print)
neviewed by:			Sign)
			011

	EPA Region 2 Supe	erfund Well Assessmen	t Checklist	
Facility Information				
Site Name:	CIC 3 d.			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information				
State Well ID:	25-54504			
Well Tag ID:	MW-2S			
Well Installation Date:	Unknown	14.		
	***	~.		
	From Log	By GPS		
Ground Surface Elevation	105.06			
Latitude	40 31 43.15987			
Longitude	74 21 53.28735			
Northing (State Plane)	617515.4			
Easting (State Plane)	529705.0		* **	
Cross streets (if applicable):	Whitman Ave & Poet's	s Ln		
GPS Instrument Used:	N/A			
Datum: Accuracy/Precision:	N/A			
	N/A			
Well Construction Details				OLIVE LIP
Type of well (circle one)	(Flush Mou	nt Stick up	Multilevel Well*	
Well lock/security type:	Master Lock			
Elevation (top of inner casing):	104.76			
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel			
Surface Casing Diameter:	7 1/4		inches	
Well Diameter:	2		inches	
Well Depth (as installed):	14		ftbgs	
D	13,34		fttoc	
Well Depth (as measured):	4.0-14.0		ft	
Well Depth (as measured): Screened Interval:	4.0-14.0			
	0-4		ft	
Screened Interval:	0-4	9-14 0	ft 9952 ftbtoc	

EPA Region 2 Superfu	nd Well Assessment (Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable)	0.0	ррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	(No)	
Well Condition	239,000	A STATE OF THE STA	- 49 24
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff? Other Comments:	Ses	No No No No No No	
Recommendations:	West Sales of Facel		
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	ov GARARIA	
Comments	0 0,15		a soften kan
Inspected by: Date of Inspection: Reviewed By:	P.RILE 9-29-14	(Prin	

		EPA Region 2 Superf	und Well Assessmer	t Checklist		
Fac	lity information		N [] N S of 1 is 4.	ewny si	L. 1878 M. M. M.	405 770
Site	Name:	CIC				
Site	Address:	125 Whitman Ave				
Site	County:	Middlesex				
Site	State:	New Jersey				
EP#	Site ID Number:	NJD 980484653				
Site	Owner:	Edison Township				
EPA	Project Manager:	Mark Austin				
We	Il Locational Information	TENERS IN SECOND OF				
Stat	te Well ID:	25-54500				
We	II Tag ID:	MW-3BR				
	Il Installation Date:	Unknown				
		From Log	By GPS	1		
	Ground Surface Elevation	86.40				
	Latitude	40 31 31.77435		1		
	Longitude	74 21 36.52967		1		
	Northing (State Plane)	616365.4		1		
	Easting (State Plane)	53100.7		1		
GPS Dat	ss streets (if applicable): is Instrument Used: um: uracy/Precision:	Patrick Ave & Cortlandt : N/A N/A N/A	St	-		
We	Il Construction Details	计元生制 复数巨鱼	(Marijani Granisa	Salana.		
Тур	e of well (circle one)	Flush Mount	Stick up		Multilevel Well*	
	l lock/security type:	Master Lock				
	ration (top of inner casing):	87.85				
	ace Casing Material:	Steel				
We	Casing Material:	Stainless Steel				
	ace Casing Diameter:	6			inches	
We	l Diameter:	2			inches	
We	I Depth (as installed):	38			ftbgs	
	Depth (as measured):	40.20			fttoc	
	eened Interval:	28-38			ft	
Оре	en Hole Interval:	0-28			ft	
	oth to Water: 6.67	9-29-14	1	0830	ftbtoc	
* 1.E -	eudéileud mall eleces es attente	Date:		Time:		
1 11	nultilevel well please see attache	ea worksneet.				

EPA Region 2 Superfund Well Assessment Checklist				
Well Headspace Readings		WELL CARE THE		
PID/FID Reading Taken Inside Top of Casing (if applicable)	. 0,	O_ppm		
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL: O _{2:} CO: H ₂ O:	% LEL 40% Vol. pm ppm		
Do readings indicate unsafe conditions exist?	Yes	No		
Well Condition		LEW BRIDE	NETT	
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	Yes Ses	No No No No No No		
Other Comments:				
Recommendations:				
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	S S S S S S		
Comments			Trislore (MI)	
Inspected by: Date of Inspection: Reviewed By:	f. KILE9 9.29-14		(Print)	
Reviewed By:			(Sign)	

	EPA Region 2 Superfu	und Well Assessment Checklist		
Facility Information			Profession and Profession	
Site Name:	CIC			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township		•	
EPA Project Manager:	Mark Austin			
Well Locational Information				
State Well ID:	25-54501			
Well Tag ID:	MW-3S			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	85.50			
Latitude	40 31 31.55223			
Longitude	74 21 36.48402			
Northing (State Plane)	616342.9			
Easting (State Plane)	531004.3			
Cross streets (if applicable):	Patrick Ave & Cortlandt S	:+		
GPS Instrument Used:	N/A			
Datum:	N/A			
Accuracy/Precision:	N/A			
Well Construction Details			Also and the	15 Vest
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*	
Well lock/security type:	Master Lock			
Elevation (top of inner casing):	88.40			
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel			
Surface Casing Diameter:	6		inches	
Well Diameter:	2		inches	
Well Depth (as installed):	14		ftbgs	
Well Depth (as measured):	16.60		fttoc	
Screened Interval:	4.0-14.0		ft	
Open Hole Interval:	9-4.0		ft	
Depth to Water:	9-29-14	0825	ftbtoc	
8.79	Date:	Time:	_	
*If multilevel well please see attach	ed worksheet.			

EPA Region 2 Superfu	und Well Assessment (Checklist	
Well Headspace Readings			THE REPORT OF
PID/FID Reading Taken Inside Top of Casing (if applicable	e): O. (O ppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):		0/ 1 51	
	LEL:	% LEL	
	O _{2:}	40% Vol.	
	CO:	pm	
	H₂O:	ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		TENHAL	a de adresa.
Is the concrete pad in good condition?	(Fes)	No	
Is the well surface casing in good condition?	(e)	No	
Is the surface casing vertical?	(Yes)	No	
Is there and internal well seal?	es	No	
Has there been physical damage to the well?	Yes	No	
Does sounding depth match completed depth?	(es)	No	
Is the measuring point marked?	(Yes)	No	
Is the well clearly labeled?	(es)	No	
Flush Mount - Is it secure from runoff?	-Yes	NO N/A	1
Other Comments:			
Recommendations:	Assistant and a second		Charles Const
Well needs to be redevloped	Yes	(No)	
Well needs to be resurveyed	Yes	No	
Well needs to be repaired	Yes	(No	
Well needs to be replaced	Yes	No	
Well needs to be properly abandoned	Yes	No	
No action necessary	(Yes)	No	
Comments			Treben/4
E. Children Sank Fr		HOLY STEEL STEEL STEEL	
	001100	,	
Inspected by:	P.RILEY		
Date of Inspection:	9-29-14		
Reviewed By:			(Print) (Sign)

	EPA Region 2 Superfu	and Well Assessment Che	cklist	
Facility information				
Site Name:	CIC			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information			[1] [1] [1] [1] [1] [1] [1] [1] [1] [1]	
State Well ID:	25-54497			
Well Tag ID:	MW-4BR			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	115 93			
Latitude	40 31 43.90266			
Longitude	74 22 10.85794	***************************************		
Northing (State Plane)	617588.6			
Easting (State Plane)	528348.2			
Cross streets (if applicable):	Whitman Ave & Heathco	te Ave		
GPS Instrument Used:	N/A			
Datum:	N/A			
Accuracy/Precision:	N/A			
Well Construction Details	TO MANAGE STO		ALP GLEEN BUTTON	416
Type of well (circle one) Well lock/security type:	Flush Mount Master Lock	Stick up	Multilevel Well*	
Elevation (top of inner casing):	117.28			
Surface Casing Material:	Stainless Steel		*	
Well Casing Material:	PVC		-	
Surface Casing Diameter:			inches	
Well Diameter:	2		inches	
Well Depth (as installed):	58		ftbgs	
Well Depth (as measured):	61.23		fttoc	
Screened Interval:	48-58		ft	
Open Hole Interval:	0-48		ft	
Depth to Water: 24.11	9-29-1	4 075		
4.11	Date:	Time		

EPA Region 2 Superfund Well Assessment Checklist				
Well Headspace Readings			Berlingstinist	
PID/FID Reading Taken Inside Top of Casing (if applicable)	: 0	ррт		
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL: O _{2:} CO:	% LEL 40% Vol. pm		
	H ₂ O:	ppm		
Do readings indicate unsafe conditions exist?	Yes	No		
Well Condition		SHRIE WAS THE	e sulfil	
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	Yes Yes Yes	No No No No No No No		
December 1 diament				
Recommendations:				
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	S (2) (2) (3) (3) (3) (3)		
Comments		Managara (488)		
Inspected by: Date of Inspection: Reviewed By:	P. RILEY 9-29-14		(Print) (Sign)	

	EPA Region 2 Sup	erfund Well Assessment Che	cklist	
Facility Information			COURT TAKEL	
Site Name:	CIC			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager	: Mark Austin			
Well Locational Info	rmation			\$1515T
State Well ID:	25-54499			
Well Tag ID:	MW-4S			
Well Installation Date	e: Unknown			
	From Log	By GPS		
Ground Surface	Elevation 115.69			
Latitude	40 31 44.04753			
Longitude	74 22 10.94107			
Northing (State I	Plane) 617603.2			
Easting (State Pla				
Cross streets (if applica	ble): Whitman Ave & Heat	hcote Ave		
GPS Instrument Used				
Datum:	N/A			
Accuracy/Precision:	N/A			
Well Construction D	etails			y wa
Type of well (circle one	Flush Mo	unt Stick up	Multilevel Well*	
Well lock/security type	: Master Lock			
Elevation (top of inner	casing): 118.29			
Surface Casing Materia	l: Steel			
Well Casing Material:	PVC			
Surface Casing Diamete	er: 4		inches	
Well Diameter:	2		inches	
Well Depth (as installed			ftbgs	
Well Depth (as measur			fttoc	
Screened Interval:	7.0-17.0		ft	
Open Hole Interval:	0-7.0		ft	
Depth to Water:		9-14 07		
*If multilevel well places	Date: see attached worksheet.	Tim	e:	
multilevel well please	see attached worksheet.			

EPA Region 2 Superfu	nd Well Assessment	Checklist	
Well Headspace Readings			LL SEMMES WE
PID/FID Reading Taken Inside Top of Casing (if applicable)	:O.	О ррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		21 W.13	22k ug 1.5
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff? Other Comments:	Yes Yes	No No No No No No	
Recommendations:	11/2-17 14:5		
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	S & S & S & S & S	
Inspected by: Date of Inspection: Reviewed By:	P. KILEY 9-29-14		(Print) (Sign)

	EPA Region 2 Superf	und Well Assessment Che	ecklist	
Facility Information				ursa
Site Name:	CIC			
Site Address:	30 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township		- 10	
EPA Project Manager:	Mark Austin			
Well Locational Information				
State Well ID:	25-68927			
Well Tag ID:	MW-5BR			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	105.12			
Latitude	40 31 41.43469			
Longitude	74 22 00.94580			
Northing (State Plane)	617340.0			
Easting (State Plane)	529113.9			
Cross streets (if applicable):	Patrick Ave & Gourmet L	n		
GPS Instrument Used:	N/A			
Datum:	N/A		-	
Accuracy/Precision:	N/A		<u> </u>	
Well Construction Details		The same of the same		
Type of well (circle one)	Flush Mount) Stick up	Multilevel Well*	
Well lock/security type:	Master Lock			
Elevation (top of inner casing):	104.67			
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel			
Surface Casing Diameter:	7 1/4		inches	
Well Diameter:	2		inches	
Well Depth (as installed):	63		ftbgs	
Well Depth (as measured):	63.53		fttoc	
Screened Interval:	53-63		ft	
	0-53		ft	
Open Hole Interval:	0 33			
Open Hole Interval: Depth to Water:		29-14 08	38 ftbtoc	

EPA Region 2 Superfu	nd Well Assessmen	t Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable): 0	О ррт	
Multi Gas/CGI Motor Poadings Takon (if applicable)		•	
Multi-Gas/CGI Meter Readings Taken (if applicable):	151.	% LEL	
	LEL:		
	O _{2:}	40% Vol.	
	CO:	pm	
•	Н₂О:	ppm	
Do readings indicate unsafe conditions exist?	Yes	(No)	
Well Condition		Ballina	The True Till
Is the concrete and in good condition?	(C)	N-	
Is the concrete pad in good condition?	(Sex)	No	
Is the well surface casing in good condition?	(GS	No	
Is the surface casing vertical?	Wes	No	
Is there and internal well seal?		No	
Has there been physical damage to the well?	Yes	(No)	
Does sounding depth match completed depth?	(YES)	No	
Is the measuring point marked?	Ves/	No	
Is the well clearly labeled?	Ves	No	
Flush Mount - Is it secure from runoff?	Yes	No	
Other Comments:			
Recommendations:	Salt Car		The second second
Well needs to be redevloped	Yes	6	
Well needs to be resurveyed	Yes	No.	
Well needs to be repaired	Yes	No	
Well needs to be replaced	Yes	No.	
Well needs to be properly abandoned	Yes	No	
No action necessary	Yes	No	
Comments			
理		Talka .	
Inspected by:	O RIIES	P	
	P.RILES		
Date of Inspection:	4-74-14		(0-1-4)
Reviewed By:			(Print)
_			(Sign)

EPA Region 2 Superf	und Well Assessment Checklis	it
	Cana District	Vega - State -
CIC		
30 Whitman Ave		-
		•
NJD 980484653		
Edison Township		
Mark Austin		
1121		
25 69020		
NAME OF THE PARTY		
UNKNOWN		
From Log	By GPS	
109.24		
40 31 38.61381		
74 22 01.59608		
617054.4		
529064.2		
Dataial Ava & Carresat I	_	
	.n	
The state of the s		Note that the same
Clush Mauret	Ctick up	Multilevel Well*
	Stick up	Multilevel Well
N-10001 (1000)		
		inches
		inches
		— ftbgs
		fttoc
		— _{ft}
		ft
	44 -000	
14.09 9.29	14 0933	ftbtoc
	CIC 30 Whitman Ave Middlesex New Jersey NJD 980484653 Edison Township Mark Austin 25-68928 MW-6BR Unknown From Log 109.24 40 31 38.61381 74 22 01.59608 617054.4 529064.2 Patrick Ave & Gourmet L N/A N/A N/A	30 Whitman Ave Middlesex New Jersey NJD 980484653 Edison Township Mark Austin 25-68928 MW-6BR Unknown From Log By GPS 109.24 40 31 38.61381 74 22 01.59608 617054.4 529064.2 Patrick Ave & Gourmet Ln N/A N/A N/A N/A N/A Plush Mount Stick up Master Lock 108.69 Steel PVC 7 1/4 2 79 79,555 63-79

EPA Region 2 Superfu	ind Well Assessment	Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable): 0.	О ррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL: O _{2:} CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		ADS WAL	The H.
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	A CONTROL OF THE CONT	No No No No No No No	
Other Comments:		-	
Recommendations:		Lyl Sign	
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	ं होतितित्व	
Comments			
Inspected by: Date of Inspection: Reviewed By:	P.RILEY 9-24-14		(Print) (Sign)

	EPA Region 2 Super	fund Well Assessmen	t Checklist	
Facility Information	N, MEDIAN S. M. MESIN			
Site Name:	CIC			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information	Par L			
State Well ID:	25-68929			
Well Tag ID:	MW-7BR			
Well Installation Date:	Unknown			
	From Log	By GPS	1	
Ground Surface Elevation	96.25	*		
Latitude	40 31 36.21850			
Longitude	74 21 54.25281			
Northing (State Plane)	616812.9		1	
Easting (State Plane)	529631.5]	
Cross streets (if applicable):	Patrick Ave & Gourmet	In		
GPS Instrument Used:	N/A	LII		
Datum:	N/A			
Accuracy/Precision:	N/A			
Well Construction Details			The state of the s	-
	Flush Moun	t) Stick up	Multilevel Well*	
Type of well (circle one) Well lock/security type:		Stick up	Multilevel Well	
3. 1.1	Master Lock 95.80	-		
Elevation (top of inner casing):	Steel			
Surface Casing Material:	Stainless Steel		-	
Well Casing Material: Surface Casing Diameter:	7 1/4		inches	
Well Diameter:	2		inches	
Well Depth (as installed):	44		ftbgs	
Well Depth (as installed):			fttoc	
Screened Interval:	34-44		ft	
Open Hole Interval:	0-34			
Depth to Water:		9-14		
Depth to water:		1 1	O917 ftbtoc Time:	
	Date:		mine.	

EPA Region 2 Superfur	nd Well Assessment	Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable)): O.C) ppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL: O _{2:} CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		1. T. M. 1. S.	W del
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	SE S	No No No No No No No	
Other Comments:			
Recommendations:		The state of the s	
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	2 इन्हें इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्हे इन्ह इन्ह इन्ह इन्ह इन्ह इन्ह इन्ह इन्ह	
Comments	Dennis pinge		The state of the s
Inspected by: Date of Inspection: Reviewed By:	P. RILEY 9-29-1	14	(Print) (Sign)

	EPA Region 2 Superfu	und Well Assessment Ch	ecklist	
Facility Information		ATE IN THE WEST		1 (
Site Name:	CIC			
Site Address:	30 Whitman Ave			
Site County:	Middlesex		19	
Site State:	New Jersey		•	
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information				
State Well ID:	25-68926			
Well Tag ID:	MW-8BR			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	105.74			
Latitude	40 31 32.65862			
Longitude	74 21 49.34654			
Northing (State Plane)	616453.3			
Easting (State Plane)	530010.9			
		70 G		
Cross streets (if applicable):	Patrick Ave & Gourmet L	n		
GPS Instrument Used:	N/A			
Datum:	N/A			
Accuracy/Precision:	N/A			
Well Construction Details			A CONTRACTOR OF THE PARTY OF TH	e en
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*	
Well lock/security type:	Master Lock			
Elevation (top of inner casing):	105.29		*	
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel		······································	
Surface Casing Diameter:	7 1/4		inches	
Well Diameter:	4		inches	
Well Depth (as installed):	63		ftbgs	
Well Depth (as measured):	63.24		fttoc	
Screened Interval:	53-63		ft	
Open Hole Interval:	0-53		ft	
Depth to Water:	15.65 9.29	14 08.	3.3 ftbtoc	
pepul to water.	10.00			

EPA Region 2 Superfu	nd Well Assessment	Checklist	
Well Headspace Readings			What divine
PID/FID Reading Taken Inside Top of Casing (if applicable)):	<i>©</i> ppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:\ O ₂ : CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		LAURENM	- dipad
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	No No No No No No	
Other Comments:			
Recommendations:		meleta e de la companya de la compa	
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	00 (S)	
Comments			- Septiment
Inspected by: Date of Inspection: Reviewed By:	P.RILE7 9-29-14	1	Print) (Sign)

	EPA Region 2 Superfu	nd Well Assessment Che	cklist	
Facility Information		题 — 国际		NI AND
Site Name:	CIC			
Site Address:	30 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey		-	
EPA Site ID Number:	NJD 980484653		-	
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
	IVIAI K AUSTIII			
Well Locational Information				
State Well ID:	25-31790			
Well Tag ID:	NUS-2D			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	115.92			
Latitude	40 31 35.56625			
Longitude	74 22 04.16614			
Northing (State Plane)	616745.8			
Easting (State Plane)	528866.2			
V				
Cross streets (if applicable):	Whitman Ave & Heathco	te Ave		
GPS Instrument Used:	N/A			
Datum:	N/A			
Accuracy/Precision:	N/A			
Well Construction Details				
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*	
Well lock/security type:	Master Lock		50.50 0.00 50	
Elevation (top of inner casing):	116.44			
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel			
Surface Casing Diameter:	8		inches	
Well Diameter:	6		inches	
Well Depth (as installed):	105		ftbgs	
	111.45		fttoc	
Well Depth (as measured):	89-105			
Well Depth (as measured): Screened Interval:	63-103			
	0-89		ft	
Screened Interval:			ft ftbtoc ::1037	

EPA Region 2 Superfun	d Well Assessmen	t Checklist
Well Headspace Readings	利亚二十二 基	and the second second
PID/FID Reading Taken Inside Top of Casing (if applicable):		-O_ppm
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:	% LEL 40% Vol.
	CO:	рт
Do readings indicate unsafe conditions exist?	Yes	No
Well Condition	- X - X - X - X - X - X - X - X - X - X	Megalia di geli
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff? Other Comments: WELL IS PERFER	Yes Yes Yes Yes Yes	NO NO NO NO NO NO NO NO NO NO NO NO NO N
Recommendations:		The second of th
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes	No No
Comments		the 1- value of
Inspected by: Date of Inspection: Reviewed By:	P. RIL. 9 9-29-14	(Print) (Sign)

	EPA Region 2 Superfu	nd Well Assessment Chec	klist	
Facility Information	A STATE OF A			MATERIAL I
Site Name:	CIC			
Site Address:	125 Whitman Ave			
Site County:	Middlesex			
Site State:	New Jersey			
EPA Site ID Number:	NJD 980484653			
Site Owner:	Edison Township			
EPA Project Manager:	Mark Austin			
Well Locational Information				
State Well ID:	25-31791			
Well Tag ID:	NUS-3S			
Well Installation Date:	Unknown			
	From Log	By GPS		
Ground Surface Elevation	120.20			
Latitude	40 31 34.93011			
Longitude	74 22 07.62930			
Northing (State Plane)	616681.0			
Easting (State Plane)	528598.9			
Cross streets (if applicable): GPS Instrument Used: Datum: Accuracy/Precision:	Whitman Ave & Heathcot N/A N/A N/A	e Ave		
	WA	ver els in the series of		
Well Construction Details	THE LOOP OF			
Type of well (circle one)	Flush Mount	(Stick up	Multilevel Well*	
Well lock/security type:	Master Lock			
Elevation (top of inner casing):	120.64			
Surface Casing Material:	Steel			
Well Casing Material:	Stainless Steel			
Surface Casing Diameter:	6		inches	
Well Diameter:	4		inches	
Well Depth (as installed):	14		ftbgs	
Well Depth (as measured):	16.60		fttoc	
Screened Interval:	4.0-14.0		ft	
Open Hole Interval:	0-4		ft	
Depth to Water:	11.44'		ftbtoc	
*If multilevel well please see attach	Date:	29-14 Time	: 030	

EPA Region 2 Superfu	ınd Well Assessment Ch	ecklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable): O.E) ppm	
, , , , , , , , , , , , , , , , , , , ,	,		
Multi-Gas/CGI Meter Readings Taken (if applicable):	1		
	LEL:	% LEL	
	O ₂	40% Vol.	
	co:	pm	
	H₂O:	ppm	
Do readings indicate unsafe conditions exist?	Yes	(No)	
Well Condition		153.4	40.34
Is the concrete pad in good condition?	Nes	No	
Is the well surface casing in good condition?	Res	No	
Is the surface casing vertical?	New Year	No	
Is there and internal well seal?	()	No	
Has there been physical damage to the well?	Yes	6	
Does sounding depth match completed depth?	Yes	(No)	
Is the measuring point marked?	RES	No	
is the well clearly labeled?	Nes	No	
Flush Mount - Is it secure from runoff?	Yes	NO X/A	
		111	
Other Comments:			
Recommendations:			Centilities
Well needs to be redevloped	Yes	6	
Well needs to be resurveyed	Yes	6	
Well needs to be resurveyed Well needs to be repaired	Yes		
Well needs to be replaced	Yes	MO MO	
Well needs to be replaced Well needs to be properly abandoned	Yes	XIO.	
No action necessary	(es)	No	
Comments			Titry of the
Comments			John Dat
	D DUTH		
Inspected by:	PIRILEY		
Date of inspection:	9-29-14		26
Reviewed By:		(Print)	ā
		(Sign)	

	EPA Region 2 Superfu	nd Well Assessment C	hecklist
Facility Information			
Site Name:	CIC		
Site Address:	125 Whitman Ave		
Site County:	Middlesex		
Site State:	New Jersey		
EPA Site ID Number:	NJD 980484653		•
Site Owner:	Edison Township		
EPA Project Manager:	Mark Austin		
Well Locational Information			
State Well ID:	25-31792		
Well Tag ID:	NUS-3D		
Well Installation Date:	Unknown		
	From Log	By GPS	
	119.40		
Ground Surface Elevation			
Latitude	40 31 34.95513		
Longitude	74 22 07.72444		
Northing (State Plane)	616683.5		
Easting (State Plane)	528591.5		
	Military A. G. Harakasa		
Cross streets (if applicable):	Whitman Ave & Heathcot	e Ave	
GPS Instrument Used:	N/A		
Datum: Accuracy/Precision:	N/A N/A		
	MA		
Well Construction Details		THE DEPT CONTRACT OF THE PARTY	
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*
Well lock/security type:	Master Lock		
Elevation (top of inner casing):	120.02		
Surface Casing Material:	Steel		
Well Casing Material:	Stainless Steel		
Surface Casing Diameter:	8 1/2		inches
Well Diameter:	6 1/2		inches
Well Depth (as installed):	43		ftbgs
Well Depth (as measured):	40,30 5	SOFT	fttoc
Screened Interval:	25-43		ft
Open Hole Interval:	0-25		ft
Depth to Water:	10.80'		ftbtoc
*If multilevel well please see attach	Date: 9-2	9-14 Ti	me: 1032

EPA Region 2 Superfu	and Well Assessment Chec	klist	
Vell Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable	e):	ррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:	% LEL	
	O _{2:}	40% Vol.	
	co:	pm pm	
	H ₂ O:	ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition		A REAL PROPERTY OF THE PARTY OF	47124
Is the concrete pad in good condition?	NãO	No	
Is the well surface casing in good condition?	Vas	No	
Is the surface casing writical?	(Ves	No	
Is there and internal well seal?	Ves	No	
Has there been physical damage to the well?	Yes	MO	
Does sounding depth match completed depth?	Yes	No	
Is the measuring point marked?	(Mes)	No	
Is the well clearly labeled?	(Yes)	No	
Flush Mount - Is it secure from runoff?	Yes	-No- 1//	
Other Comments: SILTY	OH BOTTOM		
Recommendations:			artinesi Artinesi
Well needs to be redevloped	Yes	(6)	
Well needs to be resurveyed	Yes	6	
Well needs to be repaired	Yes	NO	
Well needs to be replaced	Yes	MQ	
Well needs to be properly abandoned	Yes	6	
No action necessary		No	
Comments		7844	nikt man
Inspected by:	P.RILEY 9.29-14		
Date of Inspection:	9.29-14		
Reviewed By:		(Print)	
		(Sign)	
_			

	EPA Region 2 Superfund Well As	sessment Checklist
Facility Information	SPINSETTEN, PROTES	
Site Name:	CIC	
Site Address:	30 Whitman Ave	
Site County:	Middlesex	
Site State:	New Jersey	
EPA Site ID Number:	NJD 980484653	
Site Owner:	Edison Township	
EPA Project Manager:	Mark Austin	
Well Locational Information		
State Well ID:	25-38176	
Well Tag ID:	OU	
Well Installation Date:	Unknown	
	From Log By GPS	S
Ground Surface Elevation	95.00	
Latitude	40 31 36.05901	
Longitude	74 21 48.71515	
Northing (State Plane)	616797.4	
Easting (State Plane)	530059.1	
Cross streets (if applicable):	Gourmet Ln & Patrick Ave	
GPS Instrument Used:	N/A	
Datum:	N/A N/A	
Accuracy/Precision:	N/A	-
Well Construction Details		
Type of well (circle one)	Flush Mount St	ick up Multilevel Well*
Well lock/security type:	Master Lock	
Elevation (top of inner casing):	94.70	
Surface Casing Material:	Steel	
Well Casing Material:	Stainless Steel	
Surface Casing Diameter:	7 1/4	inches
Well Diameter:	4 1/2	inches
Well Depth (as installed):	8.5	ftbgs
Well Depth (as measured):	9.10	fttoc
Screened Interval:	3.5-8.5	ft
Open Hole Interval: '	0-3.5	ft
Depth to Water:	6.61 9.29-14	0841 ftbtoc
Depth to water:	Date:	Time:

EPA Region 2 Superfun	d Well Assessment	Checklist	
Well Headspace Readings			
PID/FID Reading Taken Inside Top of Casing (if applicable):	0.	О ррт	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL:^ O _{2:}	% LEL 40% Vol. pm	
Do readings indicate unsafe conditions exist?	H₂O: 	ppm (No)	
Well Condition			72501
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff? Other Comments:	Yes Yes Yes Yes Yes	No No No No No No No	
Recommendations:	The same of the sa		
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	<u>e</u>	
Comments			
Inspected by: Date of Inspection: Reviewed By:	P. RILE?		(Print) (Sign)

	EPA Kegion 2 Supe	rfund Well Assessm	ent Checklist		
acility Information	HENGLYSK			Indiana.	JAMES IN
Site Name:	CIC				
Site Address:	125 Whitman Ave				
Site County:	Middlesex				
Site State:	New Jersey			-	
EPA Site ID Number:	NJD 980484653				
Site Owner:	Edison Township				
EPA Project Manager:	Mark Austin				
Well Locational Information					
State Well ID:	25-30735				
Well Tag ID:	QD				
Well Installation Date:	Unknown				
	From Log	By GPS			
Ground Surface Elevation	111.18				
Latitude	40 31 35.61931				
Longitude	74 21 57.63317				
Northing (State Plane)	616751.9				
Easting (State Plane)	529370.6				
Cross streets (if applicable):	Gourmet Ln & Patrick	Λυρ			
GPS Instrument Used:	N/A	AVC			
Datum:	N/A				
Accuracy/Precision:	N/A				
Well Construction Details			4,,4		
Type of well (circle one)	Flush Mou	nt Stick up		Multilevel Well*	
Well lock/security type:	Master Lock				
Elevation (top of inner casing):	110.93				
Surface Casing Material:	Steel				
Well Casing Material:	Stainless Steel				
Surface Casing Diameter:	7 1/4			inches	
Well Diameter:	4			inches	
Well Depth (as installed):	48	7		ftbgs	
Well Depth (as measured):	47.70			fttoc	
Screened Interval:	38-48			ft	
Open Hole Interval:	0-38			ft	
Depth to Water:	19.92' 9.29	9-14	0843	ftbtoc	

nd Well Assessment (Checklist	
Special Company	In apply the second	V WENT AND M
: _ O.	<u>О</u> ррт	
CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Yes	No	
	W.	1994 \$4174
Yes (B)	No No No No No No No	
Yes Yes Yes Yes Yes	S S S S S S	
THE SALE SALE		
P.R.Gy		(Print)
	LEL: O ₂ CO: H ₂ O: Yes Yes Yes Yes Yes Yes Yes Ye	LEL:

	EPA Region 2 Superfu	und Well Assessment Checklis	
Facility Information	Sensor Marie Marie	The west of the second	
Site Name:	CIC		
Site Address:	30 Whitman Ave		
Site County:	Middlesex		
Site State:	New Jersey		
EPA Site ID Number:	NJD 980484653		
Site Owner:	Edison Township		
EPA Project Manager:	Mark Austin		
Well Locational Information			
State Well ID:	25-30737		
Well Tag ID:	UU		
Well Installation Date:	Unknown		
	From Log	By GPS	
Ground Surface Elevation	93.93		
Latitude	40 31 31.23213		
Longitude	74 21 44.78766		
Northing (State Plane)	616309.5		
Easting (State Plane)	530363.2		
Cross streets (if applicable):	Gourmet Ln & Patrick Av	e	
GPS Instrument Used:	N/A		
Datum:	N/A		
Accuracy/Precision:	N/A		
Well Construction Details		THE STATE OF THE S	
Type of well (circle one)	Flush Mount	Stick up	Multilevel Well*
Well lock/security type:	Master Lock		
Elevation (top of inner casing):	95.73		
Surface Casing Material:	Steel		
Well Casing Material:	Stainless Steel		
	8		inches
Surface Casing Diameter:			
A. (at these)	4		inches
Well Diameter:	18		inches ftbgs
Surface Casing Diameter: Well Diameter: Well Depth (as installed): Well Depth (as measured):	18		
Well Diameter: Well Depth (as installed):			ftbgs
Well Diameter: Well Depth (as installed): Well Depth (as measured):	18 19.02 8.0-18.0 0-8.0		ftbgs fttoc
Well Diameter: Well Depth (as installed): Well Depth (as measured): Screened Interval:	18 19.02 8.0-18.0	4 0837	ftbgs fttoc ft

EPA Region 2 Superfu	ind Well Assessmen	t Checklist	
Well Headspace Readings			- Some
PID/FID Reading Taken Inside Top of Casing (if applicable): _0,0	Эppm	
Multi-Gas/CGI Meter Readings Taken (if applicable):	LEL: O _{2:} CO: H ₂ O:	% LEL 40% Vol. pm ppm	
Do readings indicate unsafe conditions exist?	Yes	No	
Well Condition			that.
Is the concrete pad in good condition? Is the well surface casing in good condition? Is the surface casing vertical? Is there and internal well seal? Has there been physical damage to the well? Does sounding depth match completed depth? Is the measuring point marked? Is the well clearly labeled? Flush Mount - Is it secure from runoff?	Yes Yes Yes	NO NO NO NO NO NO NO	
Recommendations:			I DIESEL MEN
Well needs to be redevloped Well needs to be resurveyed Well needs to be repaired Well needs to be replaced Well needs to be properly abandoned No action necessary	Yes Yes Yes Yes Yes	S S S S S S S S S S S S S S S S S S S	
Comments			- Дейден
Inspected by:	P. RILEY 9-29-14	1	(Print) (Sign)

Appendix B Groundwater Sample Logs



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

BF-Z

Project Name:	Chemica	al Insecticide	Corporation	Project Num	nber:		11350100	03-202	Date:	9-30-14	
Project Location:	E	dison, New Je	ersey	Scientist/ Er	ngineer:	1	1. M	•	Samp Time:		
Screened Interval:	24.5	-34.5		Depth to Wate	er: 10.	76	Well Depth: 3		Sample VOC5, PEST, MER Parameters:		
Site Conditions:	CLOUD	Y, 70's		Observed Pur (MI/minute)	Observed Purge Rate: (MI/minute)			Total Volume 4,5 Purged:		Pump Inlet 29.5	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	pH	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1515	150	10.79	16,40	0.391	6-24	0,91	-54	0.0			
1520	150	10.79	16.43	0.391	6.28	0.84	-54	0.0			
1525	150	10.80	16.46	0.391	6.31	0.79	-53	0.0			
1530	150	10.81	16.40	0.391	6.29	0.75	-54	0.0			
1535	150	10.81	16.38	0.392	6.24	0.74	-55	0.0			
	Sec.										
		II.	1			all and a second	1				



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL

ID:

BF-20

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:		113501000	03-202	Date: 9/30/14
Project Location:	E	dison, New Je	ersey	Scientist/ En	gineer:	MA	al Tun	ven	Sample Time: 1435
Screened Interval:	80	80-90' Depth to Water: 14.75' Well Depth: 91.70'				Sample Vocis, METALS, PEST. Parameters:			
Site Conditions:	Clour	(,705.		Observed Purge Rate: (Ml/minute) Total Volume Purged:				5 L Pump Inlet 85'	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity	Comments
1400	210	14.84	18.47	,404	7,28	3.52	-40	87.5	
1405		14.84	16.56	.424	7.03	2.95	-41	76.4	
1410		14.84	15.80	.429	6,83	2.89	-40	72.7	
1415		14.84	15.62	.418	6.72	2.57	-40	57.0.	<i>p</i> .
1420		14.84	15.49	.428	6.67	2.41	-39	54.3	
1425		14.84	15.37	.427	6.62	2.33	-39	51.2	
1430		14.84	15.34	.427	6.59	2,27	-39	51.0	
1435	V	14.84	15.32	,427	6.58	2.25	-39	50.7	
			e e						



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL

ID:

MW-8F4 MS/MSD

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:		11350100	Date:	9/29/14	
Project Location:	Е	dison, New Je	ersey	Scientist/ En	gineer:	MA	el Tini	En	Sampl Time:	e
Screened Interval:	75.	85'		Depth to Water: 1,11' Well 95,10' Para						Vocs,
Site Conditions:	tions: PANTY SUNY, 705.			Observed Purge Rate: (Ml/minute) 180 ml/m				Total Volume Purged:	5 GH.	Pump Inlet 80 'Depth:
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments
1315	180	0.75	19.96	.418	7,62	8.07	-76	0.0		
1320		1.25	19,47	. 418	7.76	2.16	-89	0.0		
1325		1.79	19.39	,417	7.77	3.20	-87	0.0		
1330		2.08	19.33	,417	7.77	4.97	- 84	0.0		
1335		2,57	19.27	,416	7.78	6.24	-80	0.0		
1340		2.91	19.28	,415	7.78	6.98	-77	0.0		
1345		3.30	19.25	,414	7.78	7.12	-77	0.0		
1350		3.76	19.24	,414	7.78	7-33	-76	0.0		
1355	V	4,03	19,21	,414	7.77	7.24	-77	0.0		



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

FU

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:		11350100	03-202	Date:	9-30-14	
Project Location:	E	dison, New J	ersey	Scientist/ En	gineer:	M	. M		Sample 1138		
Screened Interval:	5-	-15'		Depth to Wate	er: 5,00	7 /	Well Depth:	2 / 1 :	Sample VOC, PEST, METALS Parameters:		
Site Conditions:	Surn	y , 70°	:	Observed Pur (MI/minute)	ge Rate:	40		Volumo & VII		Pump Inlet 10 1	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1110	140	5.07	21.61	1,59	5,92	1,21	232	10.7			
לוון	140	4,04	21.45	1.59	5.92	1,15	212	8,2		*	
1120	140	5,01	71.28	1.59	5.98	1.10	198	0.0			
1125	140	5.09	21.17	1.59	5.99	1,07	187	0.0	381		
1130	140	5.09	21.16	1,59	5,98	1.02	182	0,0			
1135	140	5.09	21.12	1,59	6:00	1,00	179	0.0			



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL

ID:

Pg. 1 of 2 FU RESAMPLE

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:		11350100	003-202	Date:	10-1-14		
Project Location:	Е	dison, New J	ersey	Scientist/ Er	ngineer:	1	M. M.		Samp Time:	2//2		
Screened Interval:	5	-15'		Depth to Water: 5, 49 Well Depth: 13.61				3.61	Sample Parameters:	Herbs.		
Site Conditions:	Cloud	y, 60°		Total					3 L	Pump Inlet Depth:		
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments		
1515	125	5.95'	20.41	0.643	6.87	1.46	155	1.9				
1520	125	5.991	20.11	0.660	6.56	1.39	158	0.0				
1525	125	6.05	19.86	0.634	6.59	1.36	162	0.0				
1530	125	6.08'	19.62	0.630	6.59	1.33	160	0.0				
1535	125	6.09'	19.38	0.626	6.57	1.29	161	0.0				
1540	125	6.11'	19.17	0.622	6.52	1.26	163	0.0				
1545	125	6.14	19.02	0,619	6.51	1.23	163	0.0				
1550	125	6.21	18.88	0.618	6.55	1.20	166	0.0				
1555	125	6.281	18.72	0.615	6.54	1.17	167	0.0				
1600	125	6.29'	18.64	0.614	6.50	1.16	166	0.0				



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

				100 mg/m
Project Name:	Chemical Insecticide Corporation	Project Number:	1135010003-202	Date: 10-1-14
Project Location:	Edison, New Jersey	Scientist/ Engineer:	M-M.	Sample Time: 1635

5-15 Depth to Water: 5.49 Well 13.61 Sample Screened

Interval:		J-13			Depth: /				Parameters:	rs: Herbs.	
Site Conditions:	Clou	Cloudy, 60°			rge Rate:	125		Total Volume / [] L Purged:		Pump Inlet Depth:	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	pH	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1605	125	6.29'	18.83	0.612	6.53	1.16	167	0.0			
1610	125	6.24'	18.46	0.611	6.54	1.18	165	0.0			
1615	125	6.271	18.38	0.607	6.52	1.15	168	0.0			
1620	125	6.Z8'	18.29	0.594	6.47	1.15	169	0.0			
1625	125	6.28	18.26	0.586	6.46	1.13	170	0.0			
1630	125	6.28	18.23	0.578	6.45	1.12	171	0.0			
1635	125	6.28	18.23	0.872	6.38	1.17	174	0.0			



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

60

Project Name:	Chemical Insecticide Corporation	Project Number:	11	35010003-202		Date:	9/29/14
Project Location:	Edison, New Jersey	Scientist/ Engineer:	Maul	Tuncin		Sample Time:	1245
Screened Interval:	26-36'	Depth to Water: 5,63	/ We	II oth: 35,45	Samp Paran	ple neters:	Voci, PEST, METALS
Site Conditions:	Clowy,705.	Observed Purge Rate: (Ml/minute)	40 ml/m	Total Volume Purged:	2.0 GA	۱,	Pump Inlet Depth: 31

Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity	Comments
145	240	5.77	19.82	,567	7,70	2.65	6	14.7	
1220		6.15	19.42	.563	6.98	227	-13	11.6	
1225		6,27	20,10	.563	6.81	1.89	-12	9.8	
1230		6.40	19.44	,561	6.73	1.26	-10	8.3	
1235		6.57	19.36	.559	6,70	1.07	-10	416	
1240		6.65	19,22	.556	6.69	1.03	-9	3.3	
1245	V	6.70	19.24	.556	6.69	0.97	-9	2.7	



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL

ID:

MW-ZBR

Chemica	al Insecticide	Corporation	Project Num	ber:		11350100	03-202	Date:	9-29-14	
E	dison, New Je	ersey	Scientist/ En	gineer:	^	N.M		Sample Time: (540		
80	7-90'		Depth to Water: 6.74 Well Depth				(SILTY)	•	Metals, Vocis,	
Clos	ndy, 71	ງ [*]	Observed Purge Rate: (Ml/minute) Total Volume 7.5				5 L	Pump Inlet 85 '		
Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments	
100	7.14	22.49	0.358	4.55	2.75	39	297	Coz	needed reducement	
110	7.31	19.69	0.362	9.07	2.14	24	225		•	
110	7.43	17,95	0.368	9.08	1.85	22	158			
110	3.04	17.20	0.369	9.12	1,47	17	90.5	Read w	pater level from wizng	
110	7.79	17,01	0.369	4.02	1.25	17	47, 3			
110	7.82	16.82	0.369	8.97	1.18	15	38.2			
110	7.91	16.65	0.370	9,96	bett	15	34.3			
110	7.95	16.69	0.370	8.92	1,07	16	27.1			
	ă							Not no	2 हर्वहरू	
	E 80 C 0 Purge Rate (ml/min) 110	Edison, New Jones	Clondy, 70° Purge Rate (ml/min) 7.14 22.49 110 7.31 19.69 110 7.43 17.95 110 8.54 17.20 110 7.79 17.01 110 7.91 16.65	Edison, New Jersey Scientist/ En 80-90' Clondy, 70° Observed Pur (Ml/minute) Purge Rate (ml/min) 7.14' 22.49 0.368 110 7.31 19.69 0.368 110 7.43 17.95 0.369 110 7.79 17.01 0.369 110 7.79 17.01 0.369 110 7.91 16.65 0.370	Edison, New Jersey Scientist/ Engineer: 80-90' Depth to Water: 6.76 Cloudy, 70° Observed Purge Rate: (MI/minute) Purge Rate (mI/min) 7.14' 22.49 0.358 8.55 110 7.31 19.69 0.362 9.07 110 7.43 17.95 0.369 9.12 110 7.79 17.01 0.369 9.02 110 7.82 16.82 0.369 8.97 110 7.91 16.65 0.370 8.94	Edison, New Jersey Scientist/ Engineer: 80-90' Depth to Water: 6.74' Cloudy, 70° Observed Purge Rate: (Ml/minute) Purge Rate (Ml/minute) Purge Rate (ml/min) 7.14' 22.49 0.358 8.55 2.75 110 7.31 19.69 0.362 9.07 2.14 110 7.43 17.95 0.369 9.08 1.85 110 3.34 17.95 0.369 9.08 1.95 110 7.79 17.01 0.369 9.02 1.25 110 7.82 16.82 0.369 8.97 1.18	Edison, New Jersey Scientist/ Engineer: M.M. 80-90' Depth to Water: 6.74' Cloudy, 70° Observed Purge Rate: (Ml/minute) Purge Rate (ml/min) 7.14' 22.49 0.358 6.55 2.75 39 110 7.31 19.69 0.368 9.08 1.85 22 110 7.43 17.95 0.369 9.08 1.85 22 110 7.79 17.01 0.369 9.02 1.25 17 110 7.82 16.82 0.369 8.97 1.18 15	Edison, New Jersey Scientist/ Engineer: M.M 80-90' Depth to Water: 6.74' Clondy, 70° Observed Purge Rate: (Ml/minute) Purge Rate (ml/min) 100 Total Volume 3 Purged: mwy Total Volume 3 Purged: mwy Total Volume 3 Purged: mwy Turbidity pH DO (mg/L) 7.14' 22.49 0.358 8.55 2.75 39 297 110 7.31 19.69 0.362 9.07 2.14 2.4 2.25 110 7.43 17.95 0.368 9.08 1.85 2.2 158 110 3 110 3 110 7.79 17.01 0.369 9.02 1.25 17 47.3 110 7.82 16.82 0.369 8.97 1.18 15 38.2 110 7.82 16.82 0.369 8.97 1.18 15 38.2	Edison, New Jersey Scientist/ Engineer: M.M Sample Parameters: Sample Parameters: M.M Sample Parameters: Samp	



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL

1 of 2 Mw-25 ID:

B									
Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:		11350100	03-202	Date: 9-29-14
Project Location:	E	dison, New Je	ersey	Scientist/ En	gineer:	M.	M.		Sample Time: 1330
Screened Interval:		4-14'		Depth to Wate	er: 6.\$	4 1	Well Depth:	7 5 1.4	Sample Metals, VOC's, arameters: pest.
Site Conditions:	Cloudy	, 70°		Observed Pur (MI/minute)	ge Rate:	60	111	Total Volume Purged:	Down latet
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity	Comments
1235	100	7.02	19.32	0,547	6:32	6.33	40	39.8	
1240	100	7.26	19.26	0.537	6.27	z, 25	55	27.2	
1245	100	7.381	19.11	0.830	6.26	1.74	83	18.4	
1250	100	7,49	19.10	0.325	6.28	1.59	97	13.2	
1255	100	7,68	18.90	0,522	6.31	1.47	87	6.7	
1300	100	7.89	18.88	0.518	6,29	1,33	58	2.9	
1305	100	8.05	19.02	0.518	6.30	1.15	28	0.0	
1310	100	8.12	18.99	0.519	6.27	1.06	14	0.0	
1315	100	8.30	18.87	0,521	6.33	1.01	フ	0.0	
1320	100	8,47	18.89	0.521	6.33	0,96	3	3,5	*



MONITORING WELL PURGING AND SAMPLE COLLECTION

Z of 2 MW-25

WELL ID:

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:	(6.4)	113501000	03-202	Date:	9-29-14	
Project Location:	Е	dison, New Je	ersey	Scientist/ En	gineer:	M	.M		Samp Time:	1530	
Screened Interval:	4-1	14"		Depth to Wate	er: 6,	341	Well Depth:	7 . 77 (Sample Motals, VOC's, Parameters: Aest-		
Site Conditions:	Clo	udy, 7	70°	(MI/minute) (O) Volu				Total Volume 6.0L Pump Inlet 9 i Depth:			
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1325	100	8.65	18.92	6,522	6.33	0,94	0	3,1			



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

MW-3BR

Chemica	I Insecticide	Corporation	Project Num	her:		142504000	20.000	•		
Project Name: Project Location: Screened Interval: Site Conditions: Chemical Insecticide Corporation Edison, New Jersey Cloudy, 65°			Project Number: Scientist/ Engineer:		1135010003-202			Date:	10-1-14	
					M.M.		Sample 1225			
			Observed Purge Rate: (MI/minute)			Depth: 40:36 Parameters: Pump		•		
								Pump Inlet 33 (
Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments	
100	7.19	16.89	0-250	7.07	1.77	-76	60.5			
100	7-19	16.81	0.260	7.10	1.55	-75	55.3			
100	7.19	16.74	0.760	7.12	1.31	-75	49.3	Started sprinkling		
100	7.15	16.73	0.260	7.10	1.23	-75	42.8			
100	7.11	16.72	0.260	7.09	1.16	-75	36.0			
100	7.16	16-67	0.260	7.09	1-11	-76	40.5			
100	7.19	16.66	0.260	7.10	1.09	-77	32.9			
100	7.19	16.61	0.260	7.14	1.08	-75	23.7			
(06	7.19	16.61	0.260	7.08	1.04	~ 77	19.2			
-	Cloud Purge Rate (ml/min) 100 10	28-38' Cloudy, 65 Purge Rate (ml/min) 100 7.19 100 7.19 100 7.19 100 7.19 100 7.19 100 7.19 100 7.19 100 7.19 100 7.19	28-38' Cloudy, 65° Purge Rate (ml/min) 100 7.19 16.89 100 7.19 16.71 100 7.19 16.77 100 7.11 16.72 100 7.19 16.67 100 7.19 16.66 100 7.19 16.66	28-38' Depth to Water Cloudy, 65° Observed Pur (Ml/minute) Purge Rate (ml/min) 100 7.19 16.89 0.260 100 7.19 16.71 0.260 100 7.15 16.73 0.260 100 7.11 16.72 0.260 100 7.19 16.67 0.260 100 7.19 16.67 0.260 100 7.19 16.67 0.260	28-38' Depth to Water: 6.7 Cloudy, 65° Observed Purge Rate: (Ml/minute) Purge Rate (ml/min) 100 7.19 16.81 0.260 7.10 100 7.19 16.74 0.260 7.10 100 7.15 16.73 0.260 7.10 100 7.11 16.72 0.260 7.09 100 7.19 16.67 0.260 7.09 100 7.19 16.67 0.260 7.10	Depth to Water: 6.74	Depth to Water: 6.74 Well Depth: 4	Depth to Water: 6.74 Well Depth: 40.56 Depth:	Depth to Water: Depth: Ho. S6 Sample Parameters: M. M. Time: Depth: Ho. S6 Sample Parameters: Cloudy, 65 Observed Purge Rate: (Ml/minute) Do Conductivity pH Do Gmp/L Gooductivity Gus/Lm² Do Conductivity pH (mg/L) Conductivity (µs/cm²) Do Conductivity Gus/Lm² Do Conductivity Do Conductivity Gus/Lm² Do Conductivity Do Conductivi	



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID: WW-35

1											
Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:		11350100	03-202	Date: 10-1-14		
Project Location:	Е	dison, New Je	ersey	Scientist/ En	gineer:	W	l. M,		Sampl Time:	e (350	
Screened Interval:	4	1-14'		Depth to Wate	er: 6,70	ί,	Well Depth:	1 6	Sample 'arameters:	vocis, metals, Pests.	
Site Conditions:	Clo	udy, 6	50	Observed Pur (Ml/minute)	rge Rate:	100		Total Volume 5.5 Purged:		Pump Inlet 7 f	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1300	100	9.37	18.29	1.32	4.18	1.82	345	24.3			
1305	100	9.56	18,54	1.31	4.14	1.7)	348	11.9			
1310	100	9.64	18,62	1.31	4.13	1.63	343	8.2			
1315	100	9.71	18.73	1,31	4.13	1.52	341	4,4			
1320	100	9,89	18.84	1.31	4.13	1.36	338	1 - 9			
1325	100	10.10	18.91	1.31	4.14	1. 29	334	0.9			
1330	100	10.19	18.94	1,30	4.14	1,15 1.3	334	4.9			
335	[00]	19.30	18.99	1,31	41.18	1:03	330	16.7			
1340	100	10,39	19.03	1,30	4.19	0.98	332	20.0			
1345	100	10,51	19,06	1:30	4,17	0.92	333	20.5			



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL NW-4BR

Project Name:	Chemica	I Insecticide	Corporation	Project Num	ıber:		11350100	03-202	Date:	9-29-14
Project Location:	Ec	dison, New Je	ersey	Scientist/ En	igineer:	M. i	М.		Sampl Time:	e 1(10
Screened Interval:	4.	8-53 '		Depth to Wate	er: 24.1	a Well Depth: 61.23 Sa Pal			Sample Parameters:	Metals, VOC's, Pest.
Site Conditions:	Snany	1, 70°		Observed Pur (MI/minute)	rge Rate:	Total Volume 7. Purged:			7	Pump Inlet Depth: 53
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments
0935 MM	100 mm	24.15							Horiba	leaked, fixed 0945
0955	100	24.14	17.12	0,444	6.0Z	1.52	-36	152		*
1000	100	29.11	17.04	0.444	6.14	1.43	-43	140		
1005	100	24.16	17.08	0,445	6.16	1.39	-47	130	1	
) Dio	100	24.12'	17.09	0.446	6,26	1.33	-45	101		
1015	[00]	24.15	17.08	0,447	6.22	1.29	-49	864		
1025	100	24.151	17,06	0.447	6.24	1,26	-50	76.6		
1025	100	24,191	17.02	0.448	6.30	1.72	-49	74.2		
1030	100	24.19	17.00	0.448	6.31	1.19	-49	66.8		
1035	100	24.191	17.06	0.449	6.32	1.15	-49	42.6		
									4	



MONITORING WELL PURGING AND SAMPLE COLLECTION

2 of 2 MW-4BR

WELL ID:

Project Name:	Chemica	al Insecticide	Corporation	Project Num	iber:		11350100	03-202	Date:	9-29-14	
Project Location:	E	dison, New J	ersey	Scientist/ Engineer:		M.M.			Sample Time: ///O		
Screened Interval:	48	7-58'		Depth to Wate	er: 24.1	well bepth: 61.23			Sample Metals, VOC'S, Parameters: Pest.		
Site Conditions:	P. Ci	ondy, -	76°	Observed Pur (MI/minute)	rge Rate:	Total Volume 7. Purged:			7	Pump Inlet 53 'Depth:	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	pH	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1040	100	24.19	17.04	0.449	6:33	1.09	-44	46.8			
1045	160	24.19	17.14	0.449	6-31	1.07	45	28.7			
1050	100	24.19'	17.22	0.450	6.29	1.05	-45	31.7		187	
1055	100	24.19	17.31	0,450	6.29	1.05	-47	26.6			
									4 8		



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

MW-SBR

Project Name:	Chemica	al Insecticide	Corporation	Project Number: 1			11350100	03-202	Date:	10-1-14		
Project Location:	E	dison, New Je	ersey	Scientist/ Engineer:		M.M.			Sampl Time:	0935		
Screened Interval:	5	53-63'		Depth to Wate	Depth to Water:			/ /- /	Sample Parameters:	Metals, VOC's, Pest.		
Site Conditions:	Clor	by, 60) 15	Observed Pur (MI/minute)	Observed Purge Rate: (Ml/minute)			Total Volume Purged:	OC	C Pump Inlet 58'		
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	pH	DO (mg/L)	ORP (mV)	Turbidity		Comments		
0900	150	10.04	16.14	0.567	6.85	1.47	-72	11.9				
0905	150	10.10	15.60	0.573	6.59	1.30	-7z	2.9				
0910	150	10.11	13.40	0.570	6.56	1-21	-71	0.0				
0915	150	10.09	15,04	0.570	6.59	1.11	-71	0.0				
0920	150	10.10	15033	0.570	6.56	1.08	-75	15.6				
0925	150	10.10	15.29	0.570	6.85	1.04	-75	27.1				
0930	150	10.04	15.29	0.570	6,60	1.03	-75	27.5				



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

MW-6BR

									I .			
Project Name:	Chemica	al Insecticide (Corporation	Project Num	ber:		11350100	03-202	Date	: 9/30/14		
Project Location:	Е	dison, New Je	ersey	Scientist/ En	gineer:	MAN	u Tune	~	Sam _l Time	ple		
Screened Interval:	63	3-79'		Depth to Wate	er: 14,27	Well Depth: 79,00' F			Sample Parameters			
Site Conditions:	Sunny	1,705.		Observed Pur (MI/minute)	ge Rate:	10 mUn		Total Volume Purged:	Volume 7 CAM Penth: 7/			
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity	1 m 5	Comments		
1260	210	12.80	22,31	,361	7.26	6.03	52	68.7				
1205		14.20	18,99	.370	7.34	7.11	-24	57.2				
1210		16.14	16,77	.377	7.48	8.37	-70	41.8				
1215		17.43	17.75	,376	7.49	8.13	-73	40.2				
1220		18.82	17.72	.351	7.52	7.70	-74	38.6				
1245		20,01	17,69	- 333	7.55	7.20	-75	37.5				
1230		21.12	ורינו	.301	7.59	6,42	-74	35.6				
1235		12.15	ור.ירן	. 289	7.60	5.71	-74	34.2				
1240		23.34	17.89	.271	7.61	5.50	-73	33.1				
1245	V	W.37	17.85	. 274	7.61	5.47	-7 (32.6				



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

MW-7BR 182

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ıber:		113501000	03-202	Date:	9-30-14	
Project Location:	Е	dison, New J	ersey	Scientist/ Er	ngineer:	M.M.			Sampl Time:	e 1415	
Screened Interval:	3	4-44'		Depth to Wate	er: 5 ,4	6	Well Depth: 4		Sample VOC, METACS, PEST Parameters:		
Site Conditions:	CLOUD	C (600 4 60 '			rge Rate:	100	'	Total Volume 7.5 Purged:	olume 7.5 L Pump Inlet 39		
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1305	100	3,89	21.12	0.602	6.76	1.26	178	0.0		Z [*]	
1310	100	5.89	20.97	0.599	6.72	1.23	174	0.0			
315	100	5,89	20.75	0,511	6,63	1.06	169	0.0			
320	100	5,89	20.57	0.560	6,56	1.04	167	0,0			
325	001	5.93	20:24	0,552	6.59	1,02	169	0.0			
1330	100	5.96	19.77			0.99	164	0.0			
1335	100	6.05	19,61	0.515	6.43	0.97	162	0.0			
340	(00)	6.12	19.42	0.492	6.38	0.96	159	0.0			
345	100	6.12	19.29	0,483	6.33	0.95	159	0.0			
350	:00	6.11	19.32	0,469	6.31	0.95	161	0.0			



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

MW-7BR 242

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:		11350100	003-202	Date:	9-30-14	
Project Location:	E	dison, New J	ersey	Scientist/ En	gineer:	M.M.			Sample Time: 1415		
Screened Interval:	44	-34'		Depth to Wate	er: <i>5, 1</i>	16'	Well H	/ / / / / /	Sample Parameters:		
Site Conditions:	Clou	04,60's		Observed Pur (MI/minute)	rge Rate:	100		Total Volume 7.5 Purged:		Pump Inlet 39 'Depth:	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments	
1355	100	6.11	18.96	0.447	6.20	0.92	162	0.0			
1400	100	6.11	18.93	0.442	6.18	0.90	162	0.0			
1408	100	6.11	18.87	0.432	6.17	0.90	165	0.0			
1410	100	6.12	18.74	0,436	6.17	0,89	166	0.0			
							5				
			1								



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

NUS-20

Project Name:	Chemica	al Insecticide	Corporation	Project Number: 1135010003-202					Date:	9.28-14
Project Location:	Е	dison, New Je	ersey	Scientist/ Er	ngineer:	MM	-PR		Sampl Time:	° 1631
Screened Interval:	8	9-105'		Depth to Wat	er: 18,4	Well Depth: ///. 45			Sample <i>V</i> Parameters:	locs, metals, pest.
Site Conditions:	30° F	CLOUDY		Observed Pu (Ml/minute)	rge Rate:	10	\	Total Volume 3, C	C	Pump Inlet 97
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments
1400	100		29.19		4.91		168	PR	Horik	on pinched
1615	180	18.66	15,60	0.242	7.01	1.85	-58	0.0		*
1620	150	18.78	15.54	0.242	7.04	1.62	-65	0.0		
1625	108	18.84	16,12	0.242	7.02	1.56	-69	0.0		
1630	108	18.491	16.12	0.244	7.06	1,56	-67	0.0		



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL

ID:

+008-1 NUS-35 142

Project Name:	Chemica	al Insecticide (Corporation	Project Num	ber:	1135010003-202				ate:	7-28-14
Project Location:	E	dison, New Je	ersey	Scientist/ En	gineer:	M.M.				ample ime:	1410
Screened Interval:	4	-14'		Depth to Wate	er: 11,4	Well 16.60 Sa Par			Sample Parame		Jocia, metals, pest.
Site Conditions:	800,	50449	P. CLOSOY	Observed Pur (MI/minute)	ge Rate:	170		Total Volume 2 13 Purged:			Pump Inlet 9'
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity			Comments
1285	140	11.44	25.05		5,35	4.70	284	160			
1300	140	11.441	21,27	0.119	4,81	3,24	357	154			
1305	140	11,44	20.11	0.117	4.75	2.72	346	136			
1310	140	11,44	19.06	0,115	4.89	2.68	332	132			
1315	140	16,491	19.24	0.116	4.92	2.6€	326	108			a
1320	140	ji.44 ^t	19.38	0.16	4,90	2.69	323	86.4			
1325	140	11.44	19.21	0.117	4.90	2.88	328	85,8			
1330	170	11,44	15.80	0.115	4.93	2.81	322	55,9			
1335	170	11.44	18.65	0.117	4.94	2,83	3Z i	45,7			
1340	170	11.44	18,88	0.116	4.91	2.99	319	34.2			



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL NUS-35 10: NUS-35 242 + DUP-1

Project Name:	Chemica	al Insecticide	Corporation	Project Num	ber:	1135010003-202				Date: 0-29-14		
Project Location:	Е	dison, New Je	ersey	Scientist/ Er	gineer:	M. Matteson			Sample Time: 1410-1482			
Screened Interval:		4-14'		Depth to Wate	er: //,니니		Well Depth:		Sample Vocis, metals, Parameters: pest.			
Site Conditions:	80,	SLANNY, P.	CLOHOY	Observed Pur (MI/minute)	rge Rate:	70		Total Volume 2 / Purged:	otal Pump Inlet Postby			
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments		
1345	170	11.45	18,79	0,116	4.89	3.17	321	25.0				
1350	170	11,44	18.65	0,117	4.92	3.34	324	19.6				
1355	170	11,44	18.53	0.116	4.91	3,57	318	13.0				
1400	170	11.44	18.64	0.116	4.98	3,80	320	8.2				
1905	170	11.44'	18.65	0.116	4,85	3.91	320	5.7				



MONITORING WELL PURGING AND SAMPLE COLLECTION

WELL ID:

Qo

									Control of the Contro	
Project Name:	Chemica	al Insecticide (Corporation	Project Number: 1135010				003-202	Date:	9/30/14
Project Location:	E	dison, New Je	ersey	Scientist/ En	gineer:	March Tuner				ole : loio
Screened Interval:	3.	8-48 °		Depth to Wate	er: [9,90				Sample Parameters:	Vois, METALS, PEST.
Site Conditions:	Cloudy	1,7015,		Observed Pur (MI/minute)	ge Rate:	20 MU/N	Total Volume Purged:	6AL.	Pump Inlet 43 'Depth:	
Time	Purge Rate (ml/min)	Depth to Water	Temp (C°)	Specific Conductivity (µs/cm²)	рН	DO (mg/L)	ORP (mV)	Turbidity		Comments
0930	220	20.01	19.15	.316	9.35	2,96	211	16.7		
0935		20.01	16.48	.282	7.82	0.97	205	14.5		
0940		20.01	16.07	.280	7.14	0.62	177	12.7		
6945		20.01	15.87	.278	6.95	0.47	158	11.0		
0950		20.01	15.92	.278	6.91	0.45	133	8.7		
0955		20,01	15.73	.278	6.89	0.44	130	6.2		
1000		20.01	15.60	.278	6.87	0.44	127	5.7		
1005		20.01	15,67	.278	6.87	0.43	124	4.8		
1010	V	20.01	15.65	.286	6.86	6,41	122	1.7		
		* ==								

Appendix C
Chain-of-Custody Records
And
CIC Sample Trip Report

SAMPLING TRIP REPORT

Site Name Chemical Insecticide Corporation

CERCLIS ID Number NJD980484653

Sampling Dates September 28. 2014 through October 1, 2014

CLP Case Number 4471

Site Location 30 Whitman Avenue, Edison, NJ 08837

Sample Descriptions Groundwater

Water samples were shipped to the locations listed in Table 1 below.

Table 1
Analytical Laboratories

Case Number	Sample Type	Name and Address of Laboratory
	TAL Metals	DESA
No Case #	(Reporting As Only)	2890 Woodbridge Ave.
	Pesticides MRN 2080.0	Edison, NJ 08837
		(732) 321-6707
44719	Herbicides MRN 2081.0	KAP Technologies
	TCL Volatiles	9391 Grogans Mill Rd.
		The Woodlands, TX 77380
		281 367 0065

Table 2 Sample Dispatch Data

9/29/2014 KAP

On September 29, 2014, one (1) trip blank, six (6) groundwater field samples, one (1) field sample with additional volume for MS/MSD, one (1) field duplicate and (1) equipment rinsate samples were shipped to the KAP Technologies laboratory for TCL VOC analysis. Refer to Table 2a below.

Table 2a Sample Dispatch Data September 29, 2014

TR Number	Airbill No.	Airbill No. No. and Type of Sample		No. and Type of Sample		
		1	Trip Blank	VOCs		
		6	Field Samples	VOCs		
2-092914-191401-0001	8996 6538 0599	1	Field Sample with MS/MSD	VOCs	9/29/2014	20:24
		1	Field Duplicate	VOCs		
		1	Equipment Rinsate	VOCs		

9/29/2014 DESA

On September 29, 2014, six (6) groundwater samples, one (1) sample with additional volume for MS/MSD and one (1) field duplicate were shipped to the DESA laboratory for Pesticide analysis. Also, five (5) field samples, one (1) field sample with additional volume for MS/MSD, and one (1) field duplicate were shipped to DESA for Metals analysis. Refer to Table 2b below.

Table 2b Sample Dispatch Data September 29, 2014

TR Number	Airbill No.		No. and Type of Sample			Date/Time Shipped		
		4	Field Sample	Pesticides				
2-092914-194317-0002	Hand Carried by CTI	1	Field Sample with MS/MSD	Pesticides				
				1	Field Duplicate	Pesticides		
	Hand Carried by CTI	2	Field Sample	Pesticides	9/29/2014	21:00		
2-092914-195712-0003		5	Field Sample	TAL Metals				
2-092914-195712-0003		1	Field Sample with MS/MSD	TAL Metals				
		1	Field Duplicate	TAL Metals				

Table 2 Sample Dispatch Data

9/30/2014 KAP

On September 30, 2014, one (1) trip blank, seven (7) groundwater field samples, one (1) field duplicate and one (1) equipment rinsate samples were shipped to the KAP Technologies laboratory for VOC analysis. Also, one (1) groundwater field sample, one (1) field duplicate, one (1) field sample with additional volume for MS/MSD and one (1) equipment rinsate samples were shipped to the KAP Technologies laboratory for Herbicide analysis. Refer to Table 2c below.

Table 2c Sample Dispatch Data September 30, 2014

TR Number	Airbill No.		No. and Type of Sar	nple	Date/Time	Shipped
		1	Trip Blank	VOCs		
		7	Field Sample	VOCs		
2-093014-184224-0006	8996 6538 0706	1	Field Duplicate	VOCs	9/30/2014	19:50
		1	Equipment Rinsate	VOCs		
		1	Equipment Rinsate	Herbicides		
		1	Field Sample	Herbicides		
2-093014-184224-0007	8996 6538 0691	1	Field Sample with MS/MSD	Herbicides	9/30/2014	19:52
		1	Field Duplicate	Herbicides		

NOTE: The Herbicide field sample submitted on Chain of Custody # 2-093014-184224-0007 (CLP sample # BBYF5) was cancelled by the SMO. Insufficient sample volume was submitted to the lab. The sample was recollected on 10/1/2014 and the Herbicide sample was resubmitted to the lab as CLP sample # BBYG6.

9/30/2014 DESA

On September 30, 2014, six (6) groundwater field samples, one (1) field duplicate and one (1) equipment rinsate were shipped to the DESA Laboratory for Pesticide analysis. Also, seven (7) groundwater field samples, one (1) field duplicate and one (1) equipment rinsate were shipped to the DESA Laboratory for metals analysis. Refer to Table 2d below.

Table 2d Sample Dispatch Data September 30, 2014

TR Number	Airbill No.		No. and Type of Sample			Shipped
2-093014-180231-0004	Hand Carried by CTI	4	Field Sample	Pesticides	9/30/2014	20:30
2-093014-180231-0004	Hallu Carried by CT1	1	Field Duplicate	Pesticides	9/30/2014	20.30
	Hand Carried by CTI	2	Field Sample	Pesticides	9/30/2014	
		1	Equipment Rinsate	Pesticides		
2-093014-181602-0005		7	Field Sample	Metals		20:30
		1	Field Duplicate	Metals		
		1	Equipment Rinsate	Metals		

Table 2 Sample Dispatch Data

10/1/2014 KAP

On October 1, 2014, one (1) trip blank, three (3) groundwater field samples and one (1) equipment rinsate sample were shipped to the Mitkem Laboratory for VOC analysis. Also, one (1) groundwater field sample and one (1) equipment rinsate sample were shipped to the Mitkem Laboratory for Herbicide analysis. Refer to Table 2e below.

Table 2e Sample Dispatch Data October 1, 2014

TR Number	Airbill No.		No. and Type of Sample			Date/Time Shipped	
		1	Trip Blank	VOCs			
		3	Field Sample	VOCs			
2-100114-173303-0008	8996 6538 0680	1	Equipment Rinsate	VOCs	10/1/2014	17:21	
		1	Field Sample	Herbicides			
		1	Equipment Rinsate	Herbicides			

10/1/2014 DESA

On October 1, 2014, three (3) groundwater field samples and one (1) equipment rinsate were shipped to the DESA Laboratory for Pesticide analysis. Also, three (3) groundwater field samples and one (1) equipment rinsate were shipped to the DESA Laboratory for metals analysis. Refer to Table 2f below.

Table 2f Sample Dispatch Data October 1, 2014

TR Number	Airbill No.		No. and Type of Sa	No. and Type of Sample		
	Hand Carried by CTI	3	Field Sample	Pesticides		
2 100114 174221 0000		1	Equipment Rinsate	Pesticides	コ _{10/1/2014}	17:15
2-100114-174221-0009		3	Field Sample	TAL Metals	7 10/1/2014	17.15
		1	Equipment Rinsate	TAL Metals		

Table 3
Sampling Personnel

Name	Organization	Site Duties
Phil Riley	CTI and Associates, Inc	Field Team Leader
Mark Turner	GWTT	Field Sampling Technician
Matt Matteson	CTI and Associates Inc.	Field Sampling Technician

				Sample Collection
Laboratory	Analyses	Sample Type	CLP Sample #	Point (SCP)
DESA	TAL Metals	Field Sample (Parent)	BBYE2	NUS-3S
		Field Duplicate	BBYE3	DUP-1 (Parent = BBYE2)
		Field Sample	BBYE4	NUS-2D
		Field Sample	BBYE5	MW-4BR
		Field Sample	BBYE6	GU
	1	Field Sample	BBYE7	MW-2S
		Field Sample	BBYE8	MW-2BR
		Field Sample + Lab QC	BBYE9	BF-4 + MS/MSD
	1	Field Sample (Parent)	BBYF3	QD
		Field Duplicate	BBYF4	DUP-2 (Parent = BBYF3)
		Field Sample	BBYF5	FU
		Field Sample	BBYF6	MW-7BR
		Field Sample	BBYF7	BF-2D
		Field Sample	BBYF8	MW-6BR
		Equipment Rinsate	BBYF9	ER-2
		Field Sample	BBYG0	BF-2
		Field Sample	BBYG2	MW-5BR
		Field Sample	BBYG3	MW-3S
		Field Sample	BBYG4	MW-3BR
		Equipment Rinse	BBYG5	ER-3
KAP	TCL Volatiles	Trip Blank	BBYE1	TB-1
		Field Sample (Parent)	BBYE2	NUS-3S
		Field Duplicate	BBYE3	DUP-1 (Parent = BBYE2)
		Field Sample	BBYE4	NUS-2D
		Field Sample	BBYE5	MW-4BR
		Field Sample	BBYE6	GU
		Field Sample	BBYE7	MW-2S
		Field Sample	BBYE8	MW-2BR
		Field Sample + Lab QC	BBYE9	BF-4 + MS/MSD
		Equipment Rinse	BBYF0	ER-1
		Trip Blank	BBYF1	TB-2
		Field Sample	BBYF2	MW-4S
		Field Sample (Parent)	BBYF3	QD
		Field Duplicate	BBYF4	DUP-2 (Parent = BBYF3)
		Field Sample	BBYF5	FU
		Field Sample	BBYF6	MW-7BR
		Field Sample	BBYF7	BF-2D
		Field Sample	BBYF8	MW-6BR
		Equipment Rinsate	BBYF9	ER-2
		Field Sample	BBYG0	BF-2
		Trip Blank	BBYG1	TB-3
		Field Sample	BBYG2	MW-5BR
		Field Sample	BBYG3	MW-3S
		Field Sample	BBYG4	MW-3BR
		Equipment Rinsate	BBYG5	ER-3

	Table 4 Sample Numbers and Collection Points							
Laboratory	Analyses	Sample Type	CLP Sample #	Sample Collection Point (SCP)				
DESA	PESTICIDES	Field Sample (Parent)	BBYE2	NUS-3S				
		Field Duplicate	BBYE3	DUP-1 (Parent = BBYE2)				
		Field Sample	BBYE4	NUS-2D				
		Field Sample	BBYE5	MW-4BR				
		Field Sample	BBYE6	GU				
		Field Sample	BBYE7	MW-2S				
		Field Sample	BBYE8	MW-2BR				
		Field Sample + Lab QC	BBYE9	BF-4 + MS/MSD				
		Field Sample (Parent)	BBYF3	QD				
		Field Duplicate	BBYF4	DUP-2 (Parent = BBYF3)				
		Field Sample	BBYF5	FU				
		Field Sample	BBYF6	MW-7BR				
		Field Sample	BBYF7	BF-2D				
		Field Sample	BBYF8	MW-6BR				
		Equipment Rinsate	BBYF9	ER-2				
		Field Sample	BBYG0	BF-2				
		Field Sample	BBYG2	MW-5BR				
		Field Sample	BBYG3	MW-3S				
		Field Sample	BBYG4	MW-3BR				
		Equipment Rinse	BBYG5	ER-3				
KAP	HERBICIDES	Field Sample (Parent & QC)	BBYF3	QD + MS/MSD				
		Field Duplicate	BBYF4	DUP-2 (Parent = BBYF3)				
		Field Sample (CANCELLED)	BBYF5	FU (SAMPLE CANCELLED)				
		Equipment Rinse	BBYG5	ER-3				
		Field Sample	BBYG6	FU RESAMPLE (Herbicides only)				

Appendix A
Chain-of-Custody Documents
September 2014 Sampling Event

DateShipped: 9/29/2014

AirbillNo: 8996 6538 0599

CarrierName: FedEx

CHAIN OF CUSTODY RECORD

Case #: XXXXX Cooler #: Q No: 2-092914-191401-0001

Lab: KAP Technologies Inc Lab Contact: Rao Alsakani Lab Phone: 281-367-0065

Sample Identifler	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
BBYE1	BBYE1	Blank/ M. Matteson	Grab	VOCs	A (HCI) (3)	TB-1	09/28/2014 08:00	
BBYE2	BBYE2	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	NUS-3S	09/28/2014 14:10	
BBYE3	BBYE3	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	DUP-1	09/28/2014 14:10	•
BBYE4	BBYE4	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	NUS-2D	09/28/2014 16:31	
BBYE5	BBYE5	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	MW-4BR	09/29/2014 11:10	
BBYE6	BBYE6	Ground Water/ Mark Turner	Bladder Pump	VOCs	A (HCI) (3)	GU	09/29/2014 12:45	
BBYE7	BBYE7	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	MW-2S	09/29/2014 13:30	
BBYE8	BBYE8	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	MW-2BR	09/29/2014 15:40	
BBYE9	BBYE9	Ground Water/ Mark Turner	Bladder Pump	VOCs	A (HCI) (6)	BF-4	09/29/2014 13:55	
BBYF0	BBYF0	Blank/ Mark Turner	Bladder Pump	VOCs	A (HCI) (3)	ER-1	09/29/2014 14:30	

Sample(s) to be used for Lab QC: BBYE9 Tag A - Special Instructions: Please keep or dispose of the cooler.	Shipment for Case Complete? N
Case # not assigned, samples shipped per Adly Michael at EPA. Case # to be assigned on 9-30-2014.	Samples Transferred From Chain of Custody #
Analysis Key	

Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Pharkly CTI	929-14/2020	FELEX	9-19-14/200	
			,	
	Relinquished by (Signature and Organization) PLANCE CT	Relinquished by (Signature and Organization) Date/Time 929-14/2020	DIMPAN.	Planton Felton Granton

USEPA

DateShipped: 9/29/2014

CarrierName: CTI and Associates

Airbill No:

CHAIN OF CUSTODY RECORD

Chemical Insecticide Corp./NJ Contact Name: Phillip Riley Contact Phone: 248 787 4057 No: 2-092914-194317-0002

Cooler#: 10 Lab: ERT/SERAS Lab Phone: 732-321-4200

Lab#	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservati ve	Lab QC
	BBYE2	NUS-3S	BBYE2	С	Pesticides	Ground Water	9/28/2014	14:10	2	1 liter amber	4 C	N
	BBYE3	DUP-1	BBYE3	С	Pesticides	Ground Water	9/28/2014	14:10	2	1 liter amber	4 C	N
	BBYE4	NUS-2D	BBYE4	С	Pesticides	Ground Water	9/28/2014	16:31	2	1 liter amber	4 C	N
	BBYE9	BF-4	BBYE9	С	Pesticides	Ground Water	9/29/2014	13:55	4	1 liter amber	4 C	Y
- District												

	SAMPLES TRANSFERRED FROM
Special Instructions: Please Return Cooler using enclosed airbill.	CHAIN OF CUSTODY#

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLES	Adaly cTI	9.794/2100			

USEPA

DateShipped: 9/29/2014 CarrierName: CTI and Associates

AlrbillNo:

CHAIN OF CUSTODY RECORD

Site #: NJD980484653 Contact Name: Phillip Riley Contact Phone: 248 787 4057 REVISED

No: 2-092914-195712-0003

Cooler #: BB Lab: ERT/SERAS

Lab Phone: 732-321-4200

Lab#	Sample #	Location	CLP Sample	Tag	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	BBYE2	NUS-3S	BBYE2	В	Metals	Ground Water	9/28/2014	14:10	1	18 oz Plastic	HNO3 pH<2	N
	BBYE3	DUP-1	BBYE3	В	Metals	Ground Water	9/28/2014	14:10	1	18 oz Plastic	HNO3 pH<2	N
	BBYE4	NUS-2D	BBYE4	В	Metals	Ground Water	9/28/2014	16:31	1	18 oz Plastic	HNO3 pH<2	N
	BBYE5	MW-4BR	BBYE5	В	Metals	Ground Water	9/29/2014	11:10	1	18 oz Plastic	HNO3 pH<2	N
	BBYE5	MW-4BR	BBYE5	С	Pesticides	Ground Water	9/29/2014	11:10	2	1 liter amber	4 C	N
	BBYE6	GU	BBYE6	В	Metals	Ground Water	9/29/2014	12:45	1	18 oz Plastic	HNO3 pH<2	N
	BBYE6	GU	BBYE6	С	Pesticides	Ground Water	9/29/2014	12:45	2	1 liter amber	4 C	N
	BBYE7	MW-2S	BBYE7	В	Metals	Ground Water	9/29/2014	13:30	1	18 oz Plastic	HNO3 pH<2	N
	BBYE7	MW-2S	BBYE7	С	Pesticides	Ground Water	9/29/2014	13:30	2	1 liter amber	4 C	N
	BBYE8	MW-2BR	BBYE8	С	Pesticides	Ground Water	9/29/2014	15:40	2	1 liter amber	4 C	N
	BBYE9	BF-4	BBYE9	В	Metals	Ground Water	9/29/2014	13:55	2	18 oz Plastic	HNO3 pH<2	Y
	-			-								

SAMPLE IT BBYES (METALS) ITAS BEEN REMOVED	FROM	C.O.C.	SAMPLES TRANSFERRED FROM	
Special instructions: Please return cooler using encicsed airbill SUBHITTED OF 9-29-14.	•		CHAIN OF CUSTODY#	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
	A STATE OF THE STA				
			The same of the sa		
	*				
1					

INCORRECT, WAS SUBMITTED WITH SAMPLES

ON 9-29-14. BBYE8 (METALS) NOT INCLUDED. PL

CHAIN OF CUSTODY RECORD

No. 2-002044-105742.2

USEPA

DateShipped: 9/29/2014

CarrierName: CTI and Associates

AirbillNo:

Chemical Insecticide Corp./NJ Contact Name: Phillip Riley Contact Phone: 248 787 4057 No: 2-092914-195712-0003

Cooler #: BB Lab: ERT/SERAS

Lab Phone: 732-321-4200

ab#	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservati ve	Lab
	BBYE2	NUS-3S	BBYE2	В	Metals	Ground Water	9/28/2014	14:10	1	18 oz Plastic	HNO3 pH<2	N
	BBYE3	DUP-1	BBYE3	В	Metals	Ground Water	9/28/2014	14:10	1	18 oz Plastic	HNO3 pH<2	N
	BBYE4	NUS-2D	BBYE4	В	Metals	Ground Water	9/28/2014	16:31	1	18 oz Plastic	HNO3 pH<2	N
	BBYE5	MW-4BR	BBYE5	В	Metals	Ground Water	9/29/2014	11:10	1	18 oz Plastic	HNO3 pH<2	N
	BBYE5	MW-4BR	BBYE5	С	Pesticides	Ground Water	9/29/2014	11:10	2	1 liter amber	4 C	N
	BBYE6	GU	BBYE6	В	Metals	Ground Water	9/29/2014	12:45	1	18 oz Plastic	HNO3 pH<2	N
	BBYE6	GU	BBYE6	С	Pesticides	Ground Water	9/29/2014	12:45	2	1 liter amber	4 C	N
	BBYE7	MW-2S	BBYE7	В	Metals	Ground Water	9/29/2014	13:30	1	18 oz Plastic	HNO3 pH<2	N
	BBYE7	MW-2S	BBYE7	С	Pesticides	Ground Water	9/29/2014	13:30	2	1 liter amber	4 C	N
_ /	BBYE8	MW-2BR	BBYE8	В	Metals VOID	Ground	9/29/2014	15:40	1	18 oz Plastic	HNO3	N
- (-		MC	Water	1				pH<2	-

BBYE8 SUBMITTED ON C.O.C. # 2-093014-181602-0005 SAMPLES TRANSFERRED FROM Special Instructions: Please return cooler using enclosed airbill **CHAIN OF CUSTODY#**

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLES	Philippy con	92914/2100			
	7 0	/			

Page 2 of 2 — OF INCORRECT COC. SEE NOTES ON Pg 142 PR

USEPA

DateShipped: 9/29/2014

CarrierName: CTI and Associates

AirbilNo:

CHAIN OF CUSTODY RECORD

Chemical Insecticide Corp./NJ Contact Name: Phillip Riley Contact Phone: 248 787 4057 No: 2-092914-195712-0003

Cooler #: BB Lab: ERT/SERAS Lab Phone: 732-321-4200

Lab#	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservati ve	Lab QC
	BBYE8	MW-2BR	BBYE8	С	Pesticides	Ground Water	9/29/2014	15:40	2	1 liter amber	4 C	N
	BBYE9	BF-4	BBYE9	В	Metals	Ground Water	9/29/2014	13:55	2	18 oz Plastic	HNO3 pH<2	Y
		-										

	SAMPLES TRANSFERRED FROM
Special Instructions: Please return cooler using enclosed airbill	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLUS	PROPPLY CTI	9.29.14/210	B		
	9.0				

USEPA

DateShipped: 9/30/2014

CarrierName: CTI and Associates

AirbiliNo:

CHAIN OF CUSTODY RECORD

Chemical Insecticide Corp./NJ Contact Name: Phillip Riley Contact Phone: 248 787 4057 No: 2-093014-180231-0004

Cooler #: XX Lab: ERT/SERAS Lab Phone: 732-321-4200

Lab#	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservati ve	Lab QC
	BBYG0	BF-2		С	Pesticides	Ground Water	9/30/2014	15:35	2	1 liter amber	4 C	N
	BBYF3	QD		С	Pesticides	Ground Water	9/30/2014	10:10	2	1 liter amber	4 C	N
	BBYF4	DUP-2		С	Pesticides	Ground Water	9/30/2014	10:10	2	1 liter amber	4 C	N
	BBYF5	FU		С	Pesticides	Ground Water	9/30/2014	11:38	2	1 liter amber	4 C	N
	BBYF6	MW-7BR		С	Pesticides	Ground Water	9/30/2014	14:15	2	1 liter amber	4 C	N

	SAMPLES TRANSFERRED FROM
Special Instructions:	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLES	PLAPROEY CTI	930-14/2030			
	7 0				

USEPA

DateShipped: 9/30/2014 CarrierName: CTi and Associates

AirbiliNo:

CHAIN OF CUSTODY RECORD

Chemical Insecticide Corp./NJ Contact Name: Phillip Riley Contact Phone: 248 787 4057 No: 2-093014-181602-0005

Cooler #: ZE Lab: ERT/SERAS Lab Phone: 732-321-4200

Lab#	Sample #	Location	CLP Sample	Tag	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservative	Lab QC
	BBYF9	ER-2		В	Metals	Blank	9/30/2014	15:04	1	18 oz Plastic	HNO3 pH<2	N
	BBYF9	ER-2		С	Pesticides	Blank	9/30/2014	15:04	2	1 liter amber	4 C	N
	BBYG0	BF-2		В	Metals	Ground Water	9/30/2014	15:35	1	18 oz Plastic	HNO3 pH<2	N
	BBYE8	MW-2BR		В	Metals	Ground Water	9/29/2014	15:40	1	18 oz Plastic	HNO3 pH<2	N
	BBYF5	FU		В	Metals	Ground Water	9/30/2014	11:38	1	18 oz Plastic	HNO3 pH<2	N
	BBYF6	MW-7BR		В	Metals	Ground Water	9/30/2014	14:15	1	18 oz Plastic	HNO3 pH<2	N
	BBYF7	BF-2D		В	Metals	Ground Water	9/30/2014	14:35	1	18 oz Plastic	HNO3 pH<2	N
	BBYF7	BF-2D		С	Pesticides	Ground Water	9/30/2014	14:35	2	1 liter amber	4 C	N
	BBYF8	MW-6BR		В	Metals	Ground Water	9/30/2014	12:45	1	18 oz Plastic	HNO3 pH<2	N
	BBYF6	MW-6BR		С	Pesticides	Ground Water	9/30/2014	12:45	2	1 liter amber	4 C	N
	BBYF3	QD	BBYF3	В	Metals	Ground Water	9/30/2014	10:10	1	18 oz Plastic	HNO3 pH<2	N
	BBYF4	DUP-2	BBYF4	B	Metals	Ground Water	9/30/2014	10:10	1	18 oz Plastic	HNO3 pH<2	N
					-		-		-			

Special Instructions: Please return cooler using enclosed airbill. Thanks.	SAMPLES TRANSFERRED FROM
Please note: Sample # BBYE8 METALS was not included with samples delivered on 9-29-14. It is included with these samples.	CHAIN OF CUSTODY#

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLES	Pholpholy CTI	9-30-14/2030			
		/			
			10.00		
			CARL SALES CONTRACTOR OF THE S		

DateShipped: 9/30/2014

CarrierName: FedEx AirbillNo: 8996 6538 0706

CHAIN OF CUSTODY RECORD

Case #: 44719 Cooler #: ZZ No: 2-093014-184224-0006

Lab: KAP Technologies Inc Lab Contact: Rao Alsakani Lab Phone: 281-367-0065

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
BBYF9		Blank/ Mark Turner	Bladder Pump	VOCs, HERB	A (HCI), D (4 C) (5)	ER-2	09/30/2014 15:04	
BBYG0		Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	BF-2	09/30/2014 15:35	
BBYF1		Blank/ Mark Turner	Grab	VOCs	A (HCI) (3)	TB-2	09/30/2014 07:00	
BBYF2		Ground Water/ M. Matteson	BAILER	VOCs	A (HCI) (3)	MW-4S	09/30/2014 08:04	
BBYF5		Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	FU	09/30/2014 11:38	
BBYF6		Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	MW-7BR	09/30/2014 14:15	
BBYF7		Ground Water/ Mark Turner	Bladder Pump	VOCs	A (HCI) (3)	BF-2D	09/30/2014 14:35	
BBYF8		Ground Water/ Mark Turner	Bladder Pump	VOCs	A (HCI) (3)	MW-6BR	09/30/2014 12:45	
BBYF3	BBYF3	Ground Water/ Mark Turner	Bladder Pump	VOCs	A (HCI) (3)	QD	09/30/2014 10:10	
BBYF4	BBYF4	Ground Water/ Mark Turner	Bladder Pump	VOCs	A (HCI) (3)	DUP-2	09/30/2014 10:10	

	Shipment for Case Complete? N
Sample(s) to be used for Lab QC: BBYF9 Tag D - Special Instructions; Please return cooler using enclosed airbill. Thanks.	Samples Transferred From Chain of Custody #
Analysis Key: HERB=Herbicides	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLES	oldply cti	9-30-14/200	Fed ex	9-30-14/2000	

CHAIN OF CUSTODY RECORD

No: 2-093014-184224-0007

DateShipped: 9/30/2014 CarrierName: FedEx

Case #: 44719

Lab: KAP Technologies Inc Lab Contact: Rao Alsakani Lab Phone: 281-367-0065

AirbillNo: 8996 6538 0691

Cooler #: 461

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
BBYF3	BBYF3	Ground Water/ Mark Turner	Bladder Pump	HERB	D (4 C) (4)	QD	09/30/2014 10:10	
BBYF4	BBYF4	Ground Water/ Mark Turner	Bladder Pump	HERB	D (4 C) (2)	DUP-2	09/30/2014 10:10	
BBYF5	BBYF5	Ground Water/ M. Matteson	Bladder Pump	HERB	D (4 C) (2)	FU	09/30/2014 11:38	

*	Shipment for Case Complete? N
Sample(s) to be used for Lab QC: BBYF3 Tag D - Special Instructions: Please return cooler using enclosed airbill. Thanks,	Samples Transferred From Chain of Custody #
Analysis Key: HERB=Herbicides	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLOS	Philipply CTI	9-30-14/2000	red ex	930-14/2000	
			,		

DateShipped: 10/1/2014

CarrierName: FedEx AlrbillNo: 8996 6538 0680

CHAIN OF CUSTODY RECORD

Case #: 44719 Cooler #: ZA No: 2-100114-173303-0008

Lab: KAP Technologies Inc Lab Contact: Rao Alsakani Lab Phone: 281-367-0065

Sample Identifier	CLP Sample No.	Matrix/Sampler	Coll. Method	Analysis/Turnaround (Days)	Tag/Preservative/Bottles	Location	Collection Date/Time	For Lab Use Only
BBYG1	BBYG1	Blank/ M. Matteson	Grab	VOCs	A (HCI) (3)	TB-3	10/01/2014 06:30	
BBYG2	BBYG2	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	MW-5BR	10/01/2014 09:35	
BBYG3	BBYG3	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	MW-3S	10/01/2014 13:50	
BBYG4	BBYG4	Ground Water/ M. Matteson	Bladder Pump	VOCs	A (HCI) (3)	MW-3BR	09/30/2014 12:25	
BBYG5	BBYG5	Blank/ M. Matteson	Bladder Pump	VOCs, HERB	A (HCI), D (4 C) (5)	ER-3	10/01/2014 14:45	
BBYG6	BBYG6	Ground Water/ M. Matteson	Bladder Pump	HERB	D (4 C) (2)	FU Resample	10/01/2014 16:35	
						11		
								-

Special Instructions: Please return cooler using enclosed airbill. Thanks	Shipment for Case Complete? Y
Case is complete.	Samples Transferred From Chain of Custody #
Analysis Key: HERB=Herbicides	

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLES	Phillip Ray	10-1-14/1930	Fedex	10-1-14/1930	

USEPA

DateShipped: 10/1/2014

CarrierName: CTI and Associates

Airbil No:

CHAIN OF CUSTODY RECORD

Chemical Insecticide Corp./NJ Contact Name: Phillip Riley Contact Phone: 248 787 4057 No: 2-100114-174221-0009

Cooler#: 22 Lab: ERT/SERAS

Lab Phone: 732-321-4200

Lab#	Sample #	Location	CLP Sample #	Tag	Analyses	Matrix	Collected	Sample Time	Numb Cont	Container	Preservati ve	Lab QC
	BBYG2	MW-5BR		В	Metals	Ground Water	10/1/2014	09:35	1	18 oz Plastic	HNO3 pH<2	N
	BBYG2	MW-5BR		С	Pesticides	Ground Water	10/1/2014	09:35	2	1 liter amber	4 C	N
	BBYG3	MW-3S		В	Metals	Ground Water	10/1/2014	13:50	1	18 oz Plastic	HNO3 pH<2	N
	BBYG3	MW-3S		С	Pesticides	Ground Water	10/1/2014	13:50	2	1 liter amber	4 C	N
	BBYG4	MW-3BR		В	Metals	Ground Water	9/30/2014	12:25	1	18 oz Plastic	HNO3 pH<2	N
	BBYG4	MW-3BR		С	Pesticides	Ground Water	9/30/2014	12:25	2	1 liter amber	4 C	N
	BBYG5	ER-3		В	Metals	Blank	10/1/2014	14:45	1	18 oz Plastic	HNO3 pH<2	N
	BBYG5	ER-3		С	Pesticides	Blank	10/1/2014	14:45	2	1 liter amber	4 C	N
-												

Special Instructions: Please return cooler using enclosed airbill. Thanks.	SAMPLES TRANSFERRED FROM
Case is complete	CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
SAMPLES	Philipply CTI	10-1-14/1945			

Appendix B
FedEx Airbills
September 2014 Sampling Event

2 3 0215

	1	7	
1	1	1	1
L	./	1	/
	_	*	

From Please print and press hard. Date 9-29-14 Sender's FedEx Account Number 1150-9876-4	4 Express Package Service *10 most locations.	Packages up to 150 lbs. For packages over 150 lbs., use the now FeeEx Express Freight US Airbill.
Sender's JACQUELINE FIELDS Phone 248 486-5100	FedEx First Overnight Eadled next business monthing (all-very to select to carbon, Friday shoments will be delivered on Mydfay winess 6A1UAN 6E-why it selected. Secured businesses will be delivered on Seturately Dislayery (in the Control of	Day A.M.
Company CTI AND ASSOCIATES INC	FedEx Priority Overnight Neat business morning 1 Feday shaments will be graved on Manday enters SATURDAY be ivery or bedataged on Debany's seducted	horngon," Thursday ระวัตสเตกเร Monday แก้จรร SATURDAY
Address 51331 PONTIAC TRL DOPL/POS/SUM/Room	FedEx Standard Overnight Next business altomoca.* Saturday Dockery NOT available Security Office Standard Stand	•
Vour Internal Billing Reference 1/35010003-202	5 Packaging * Declared value limit 5500. Fed Ex Envelope* Fed Ex Pak* Fed Ex Box	FedEx Other
TO Recipients SAMPLE RECEIVING Phone 28/3670065	6 Special Handling and Delivery Signature Options SATURDAY Delivery FodEx Standard Overright, FedEx ZDey A.M., or FedEx Express Saver	
Company KAP TECHNOLOGIES Address 9391 GROGANS MILL Rd. We cannot deliver to PO. Doxes or P.O. 2IP codes. Address Addr	No Signature Required Peckers may be last well-out contained and peckers may be last well-out contained and peckers may be last well-out for delivery. Does this shipment contain dangerous goods? No Yes Shippers Declaration not required. Shippers Declaration not required. Dry Ice, 8, 1 of the declaration of the pecker of the peckers	Indirect Signature Indirect Signature Indirect Signature Indirect
Uso this time for the HOLD location address or for continuetion of your shipping address. City THE WOODLANDS State TX ZIP 77380 Q451505929	7 Payment Bill to: Sander Enter FedEx Acct. No. or Credit Card No. below. The Company of the Card No. below. Recipient Third Party Company of the Card No. below. Total Packages Total Weight Total Declared Value?	redit Card [] Cash/Chec
The FedEx US Airbill has changed. See Section 4. For enigments over 150 lbs., order the new FedEx Express Freight US Airbilli	ibs. \$ 00 Tour liability is limbed to \$100 univers you declare a nigher value. See book for datase, By using this Aria agree to the searche conditions on the book of this Ashbill and vinitio our most ProEss Sandon Guidu, include that find our Marting. Rev. Data 1/1/10 - Pert #163154 - @1964-2010 FedEx - PRINTED IN U.S.A. SRS	blayes ng terms

80 RARITAN CENTER PARKWAY Edison, NJ 08837

_ocation:

LDJA-P0S3 399426 840106962529 PRIORITY OVERNIGHT 899665380599 19 ransaction: Device ID: Employee:

Scheduled Delivery Date 09/30/2014 19.60 lb (S)

134,56

FedEx Account: ****8764 Shipment subtotal: Total Due:

134.56

134.56

134.56

M = Weight entered nanually S = Weight read from scale T = Taxable item Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: <u>fedex.com</u> Or call 1.800.GoFedEx 1.800.463.3339

September 29, 2014 8:24:14 PM

* To most locations.

Form 0215

Express Package Service

FedEx First Overnight
Earliest next business morning delivery to relect
besiders, Fiday shapeers will be delivery to relect
besiders, Fiday shapeers will be delivery to selected

FedEx Priority Overnight New business moning. Fr day shipments will be do hared on Manday undess SATURDAY Delivery is selected

* Declared value limit \$500.

FedEx Pak*

FedEx Standard Overnight Next business oftencen * Securday Delivery NOT evaluation

Packaging

FedEx Envelope*

4

	ed Package FodEx B996 6538 0706 Expréss US Airbill Munter
1	From Plages furint entitless hard. Date 30 2014 Sender's FedEx Account Number 1150-9876-4
	Sender J#CQUELINE FIELDS Phone 248 486-5100
	COMPANY CTI AND ASSOCIATES INC
	Address 51331 PONTIAC TRL
2	City WIXOM State MI ZIP 48393-2046
_	Your Internal Billing Reference //356/0003-202
3	To Recipient's SAMPLE RECEIVING Phone 281, 367 0065
	Company KAP TECHNOLOGIES
	Address 9391 GROGANS MILL RD HOLD Weekday Feets transfer to PO. boxes or PO. ZIP codes.
	Address Address Use this time for the HDLO location address or for continuation of your shipping address HDLD Saturday Feeth Peetro Continuation Fe
	City THE WOODLANDS State TX ZIP 77380

0451505929

187,15

Shipment subtotal:

187,15 80 RARITAN CENTER PARKWAY 840107077547 LDJA-POS3 Edisan, NJ 08837 32.25 lb (S) 399426

Device ID:

ocation:

PRIORITY OVERNIGHT 899665380706 ransaction: Employee:

Scheduled Delivery Date 10/01/2014

187.15 187.15 fotal Due: FedEx Account: *****

Total Packages

H = Weight entered manually S = Weight read from scale T = Taxable item Subject to additional charges. See FedEx Service Guide at fedex.com for details. All nerchandise sales final

Visit us at: fedex.com Or call 1,800.GoFedEx

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Alchill.

Other

FedEx 2Day A.M. Second business morning.* Seturday Dollvery NOT evaleble FedEx 2Day Second business afternoon* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected FedEx Express Saver Third business day * Soturday Delivery NOT available

FedEx

FedEx Tube Box Special Handling and Delivery Signature Options 6 SATURDAY Delivery
FedEx Standard Ovamicht, FedEx 2Day A.M., or FedEx Express Saver Indirect Signature
If no chois available atrocipients
address, someone at a neighboring
address may sign for delivery. For
residential deliveries only. Fee appli No Signature Required Package may be left without othering a signature for dolivery Direct Signature
Someone et recipiont's eddress
may sign for delivery *fee applies*.

Does this shipment contain dangerous goods? Yes Shipper's Declaration not required. Dry Ice Dry Ice, 9, UN 1845 Designative goods tind within dry ideal connective shipped in Fed Exipackaging or placed in a Fed Exipaces Drug Blosc Cargo Aircraft Only Payment Bill to:

Recipient Third Party [] Cash/Check Credit Card

Total Weight Total Declared Value

Tour liability is instead to \$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the sensice conclains on the back of this Airbill and in the current Fector Sensice Guido, including to this half limit or liability.

611

Ruy Dato 11/10 - Part #163134 - €1934 2010 FodEx + PRINTED IN U.S.A. SRS

September 30, 2014 7:50:05 PM

2

Express US Airbill Frack B996 6538 0691	form 0215	Semicis Depu
From Please print and press hard. 9-30-14 Sender's FedEx Account Number 1150-9876-4	4 Express Package Service •Torres	t locations. Packages up to 150 lbs. For packages over 150 lbs., use ube new Feelbs, Express Freight US Airbill.
Sender's JACQUELINE FIELDS Phone 248 486-5100	FedEx First Overnight Earthest next brokness morning dislovery to select to extend so in Montage under some some of the control. If they are some morning will be devived on Montage under so AMD Techney's solected.	FedEx 2Day A.M. Soccod tubless ratemay. Sanitary believe NOT exception
COMPANY CTI AND ASSOCIATES INC	FadEx Priority Overnight Next but ness morning.* Friday shipments will be deviced an Monday unless SATURDAY Delivery is selected.	FedEx 2Day Second business shernoon.* Thursday shipments wall be delivered on Monday unless SATURDAY Delivery is selected.
Address 51331 PONTIAC TRL Deptification of the Control of the Cont	FedEx Standard Overnight Next business alternation.* Seturday Dat very NOT available	FadEx Express Saver Trird business day* Setunday De hory NOT available
City WIXOM State MI ZIP 48393-2046 Your Internal Billing Reference First & Contractions will appear on invices.	5 Packaging * Declared value limit \$500. FedEx Envelope* FedEx Pak*	□ FedEx □ FedEx Cother
To Recipient's SAMPLE RECEIVING Phone 281, 367,0065	6 Special Handling and Delivery Si SATURDAY Delivery Fedex Standard Overnight, Fodex 20ey A	
Company KAP TECHNOLOGIES Address 9391 GROGANS MILL Rd. HOLD Weekday Federschaften Address	Packaga may be lath without Sameon obtaining a signature for delivery may sign Does this shipment contain dangerous goo	Signature on the characteristic of the chara
Address We cannot delive to P.O. boxes or P.O. ZIP codes. Dept./P.cor/Suite/Room HOLD Saturday Feet to explore editing Feet t	No Yes shaper stacked Shipper's De Areacon. Shipper's De Areacon. On the quind or slaced in e fedits Express Direct Box.	DIVICE, 0, ON 1043 X XB
CINTHE WOODLANDS State TX ZIP 77380 0451505929	Sender	No. or Crodit Card No. below. Third Party Credit Card Cash/Check
The FedEx US Airbill has changed. See Section 4. For Imaginarity over 160 lbs., order the new FunEx Express Freight US Airbill.	Total Packages Total Weight Total De the S Our liability is for tool to \$130 unless you declare a higher value, Soo agree to the service conditions on the back of this Arial and in the culturifiration (bability). Rev. Date 11/10 + Part #103124 + 0.1544-2310 FedEx + PRINTED IN L	

80 RARITAN CENTER PARKWAY Edison, NJ 08837

840107077917 LDJA LDJA-POS3 399426

Fransaction: Device ID: Employee: Location:

Scheduled Delivery Date 10/01/2014 40,75 lb (S) PRIORITY OVERNIGHT 899665380691

219.78

219.78 Shipment subtotal:

*****8764 Total Due: FedEx Account:

219.78

219.78

M = Weight entered manually S = Weight read from scale T = Taxable item Subject to additional charges. See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: <u>fedex.com</u> Or call 1.800.GoFedEx 1.800.463.3339

September 30, 2014 7:52:11 PM

2 3

Express US Airbill Federal B996 6538 0680	ISTA 0215	Sentier's Copy
From Please print and press hard. Date 10-1-14 Sender's FedEx Account Number 1150-9876-4	4 Express Package Service To must	for any known quantiff the rice the new
Sender's JACQUELINE FIELDS Phone(248 486-5100	FedEx First Overnight Earliest road business morning delivery to select locations. Friday shomeon will be devivered on More by under SATURAN Delivery is earliested.	FedEx 2Day A.M. Second business morning* Saturday 08/2007 NOT available
CTI AND ASSOCIATES INC	FedEx Priority Overnight Next business encounts * Friday an amonts will be delivered on Manday unless SATURDAY Delivery is solucited.	FedEx 2Day Second business afternoon." Thursday shipments with to dolvered on Manday unless SATURDAY Dolvery's selected
Address 51331 PONTIAC TRL	FedEx Standard Overnight Now business afterneon.* Sacurday Celivery NOT available	FedEx Express Saver That business day? Saturday Delivery NOT available.
City WIXOM State MI ZIP 48393-2046	5 Packaging • Doctored value limit \$500. FedEx Envelope* FedEx Pak*	FedEx FedEx Other
Your Internal Billing Reference 1135010003-202		Box Lube
TO Recipient's SAMPLE RECEIVING Phone 2813670065	6 Special Handling and Delivery Signature Saturday Delivery Fodex Standard Overnight, Fodex 20 y A l	
COMPANY KAP TECHHOLOGIES	No Signature Required Package may be left without chicking a signature for delivery.	Signature a arrections address to develop. Fee applies to develop. Fee applies received to develop from the second from the s
Address 9391 GROGANS MILL Rd, HOLD Weekday Feet Introduct of the Control of the C	Does this shipment contain dangerous good Yes No As par angelod Shippar's Day	ds?
Address SUTTE A Survey Fedit location address or for continuation of your shipping address Fedit Park of the MOLD location address or for continuation of your shipping address Fedit Park of the MolD location address or for continuation of your shipping address	No As per attached Shippers Declaration Internative A. Danperous goods line before the cannot be shipped in FedEx packer pisced in a FedEx Express Drug Box.	- DIVICE, SCOTT 1010 X 4 Ng
City THE WOODLANDS State TX ZIP 77380	Sender	do, or Credit Cerd No. below.
0451505929	Act No. n Section Recipient Test No. Decrease No.	Third Party Credit Card Cash/Ched
	Total Packages Total Weight Total De	clared Value [†]

206.33 206.33



180234 840107188079 80 RARITAN CENTER PKWY Edison, NJ 08837 LDJA LDJA-P0S02 Fransaction: Device ID: Employee: Location:

206,33 206,33 Scheduled Delivery Date 10/02/2014 Shipment subtotal: 37.35 lb (S) PRIORITY OVERNIGHT 899665380680

H = Weight entered manually S = Weight read from scale T = Taxable item

FedEx Account: ****8764

Total Due:

Subject to additional charges, See FedEx Service Guide at fedex.com for details. All merchandise sales final.

Visit us at: <u>fedex.com</u> Or call 1,800,GoFedEx 1.800,463,3339

October 1, 2014 7:21:16 PM

611

Appendix C Field Parameters September 2014 Sampling Event

Appendix C

Field Parameter Measurements - September 2014 Sampling Event Chemical Insecticide Corporation - Edison, New Jersey Operable Unit 4 (OU4) - Groundwater

Monitoring Well ID	Sampling Date	pH (s.u.)	Specific Conductance (uS/cm²)	Oxidation Reduction Potential (mv)	Dissolved Oxygen (mg/L)	Turbidity (NTU)	Temperature (°C)
BF-2	9/30/2014	6.24	392	-55	0.74	0.0	16.38
BF-2D	9/30/2014	6.58	427	-39	2.25	50.7	15.32
BF-4	9/29/2014	7.77	414	-77	7.24	0.0	19.21
FU	10/1/2014	6.38	572	174	1.11	0.0	18.23
GU	9/29/2014	6.69	556	-9	0.97	2.7	19.24
MW-2BR	9/29/2014	8.92	370	16	1.07	27.1	16.69
MW-2S	9/29/2014	6.33	522	0	0.94	3.1	11.49
MW-3BR	10/1/2014	7.08	260	-77	1.04	19.2	16.61
MW-3S	10/1/2014	4.17	1300	333	0.92	20.5	19.06
MW-4BR	9/29/2014	6.29	450	-47	1.05	26.6	17.31
MW-4S	9/30/2014	*	*	*	*	*	*
MW-5BR	10/1/2014	6.60	570	-75	1.03	27.5	15.29
MW-6BR	9/30/2014	7.61	274	-71	5.47	32.6	17.85
MW-7BR	9/30/2014	6.17	436	166	0.89	0.0	18.74
NUS-2D	9/28/2014	7.06	244	-67	1.56	0.0	16.12
NUS-3S	9/28/2014	4.85	116	320	3.91	5.7	18.65
QD	9/30/2014	6.86	286	122	0.41	1.7	15.65

Notes:

s.u. = standard units

uS/cm² = micro siemens per square centimeter

°C = degrees celcius

mg/L = milligrams per liter

mv = milli volt

NTU = Nephelometric Turbidity Units

^{* =} MW-4S had insufficient water to perform low flow sampling, a grab sample was collected for VOCs only.

Appendix D Equipment Calibration Logs



EQUIPMENT CALIBRATION WORKSHEET

Dates:

9-29-10-1-14

Project Name:

Chemical Insecticide Corporation

Weather:

Varies

Instrument I. D.

21127

Project Number:

1135010003-202

Scientist/ Engineer: P.R./M.M.

Multi - Parameter Instrument Calibration

Data / Time		рН		ORP	Specific Conductivity		00	Barometric Pressure	Comments
Date / Time	4	7	10	240 mv	718 (µs/cm²)	100%	mg/L	IN mmHg	
9/29/14	4.00	7.00	10.00	240	0.718		9.54	Z4,99"	
1/30/14	4,0	7.00	10.00	240	0.718	/	9,82	29.97"	
									8
	N.		0		\\\-				
Lot No.	*	3AK280	3AK118	7065	*		Harris M		

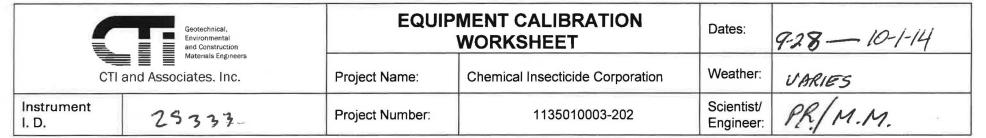
Turbidimeter Calibration

Date/ Time	<0.1	20	100	800
9-29-14	0.0		~	800
9.30.14	0.0	_	_	800
				Horiba 201046-4

* Antocal Solution Lot # C467288

TURBIDITY STANDARD 800 NTU LOT# 201046-4

718 WS CONDUCTIVITY LOT # = PINE 4AH230



Multi - Parameter Instrument Calibration

Date / Time		рН		ORP	Specific Conductivity		00	Barometric Pressure	Comments
Date / Time	4	7	10	240 mV	718 (µs/cm²)	100%	mg/L	IN _mmHg	
9-28-14 1130	*4.00	7.00	10.00	240	0.718		10.49	30.14"	
9-29-14 0800		7.00	10.00	240	0.718		9,51	29,99"	
9-30-14	4.00	7.00	10,00	240	0.718		7.88	29.97"	
10-1-14	4.00	7.00	10.00	240	0.718		10-32	30,02"	
					*				
Lot No.	*	3HK250	3AK 118	7065	*14HZ30				

Turbidimeter Calibration

Date/ Time	<0.1	20	100	800
9:28-14 1130	0.0		_	800
9-29-14	0.0		_	400
9.30.14	0.0	_	_	800
10-1-14	0. 0	-	_	800
				Horiba 201046-7

* AUTOCAL SOCUTION LOT # =

CH67288

TURBIDITY STANDARD 800NTU

LOT # 201046-4

71845 CONDUCTIVITY LOT # = PINE 4AH230

Date:	9-28-1	4
Date:	1-201	7

Start Time: AT SITE 1030

Issues Discussed

Protective Clothing: LEVEC O,

Chemical Hazards: NONE EXCEPT LOW LEVEL VOCS IN G.W.

Physical Hazards: 5LIPS, TRIPS, PAULS, TICKS, SWAKES

Emergency Procedures: CALL 911

Hospitals:

Special Equipment: G.W. SAMPLING, EQUIP.

Miscellaneous

ATTENDEES			
Print Name	Signature		
PHIL RILEY	Phil Rey		
PHIL RILEY Matteson	MA MAD		
10.00			

Meeting Conducted by: P. RILEY BR.

Date: 9-29-14	
Start Time: 0735 (ATG)	
Issues Discussed	
Protective Clothing: LEVEL 'O"	
Chemical Hazards: Low LEVEL VOCS	IN GROUPOWATER
Physical Hazards: SLIPS, TRIPS, PALL	S, INSECTS, TRAPPIE
Emergency Procedures: CALL 911	
Hospitals: R, JOHNSON 1405P1	TAL
Special Equipment: 6. w. 5 AMPLING	
Miscellaneous $BESAFETI$	YINK!
ATTEN	NDEES
Print Name	Signature
PHIL RILEY	Philiphiles
Matt Matteson	May Ald
MAN Tunen	Ollas Un
	A DESCRIPTION OF THE PROPERTY
WALL THE THE PARTY OF THE PARTY	
Meeting Conducted by: PRILEY	

Date: 4-30-14	
Start Time: 0800	
Issues Discussed	
Protective Clothing: Level D PPE	
Chemical Hazards: VOC'S	
Physical Hazards: 6/195, trips, falls	insects
Emergency Procedures: Call 911	,
Hospitals: Robert Johnson	
Special Equipment: Groundwater Sample Miscellaneous	
Miscellaneous	ns Equipment
	NDEES
ATTER Print Name	NDEES Signature
Print Name Matteson	
Print Name Matteson	
Print Name Mart Marteson	

M. Matteson

Date: 10-1-14	
Start Time: 0820	
Issues Discussed	
Protective Clothing: Level D PPE	
Chemical Hazards: VOC'S	
Physical Hazards: Slips, trips, Fulls,	wet grass, TRAFFIC
Emergency Procedures: Call 911	
Hospitals: Robert Johnson	
Special Equipment: Water Sampling &	Equipment
Miscellaneous Watch out for thum	derstarms
Miscellaneous Wortch out for thum ATTEN	derstarms NDEES
Miscellaneous Wortch out for thum	derstarms
Miscellaneous Wortch out for thum ATTEN	derstorms NDEES
Wortch out for thun ATTEN Print Name	derstorms NDEES
Miscellaneous Watch out for thun ATTEN Print Name Matt Matterson	derstorms NDEES
Miscellaneous Watch out for thun ATTEN Print Name Matt Matterson	derstorms NDEES
Miscellaneous Watch out for thun ATTEN Print Name Matt Matterson	derstorms NDEES
Miscellaneous Watch out for thun ATTEN Print Name Matt Matterson	derstorms NDEES
Miscellaneous Watch out for thun ATTEN Print Name Matt Matterson	derstorms NDEES

Meeting Conducted by:

M. Mattegon

Appendix E Daily Quality Control Reports

DAILY QUALITY CON	NTROL REPORT					
Site: Chemical Insecticide						
Corporation Superfund Site	Project Manager: R. Stenson	Quality Control: D. Lonergan Page No.:1 of1				
Date: 9-28-2014 Week	No.: 1 Hours on Site: 7.0		2DQ-11-D-3001			
Written By: Phillip Riley		Reviewed By: R. Stenson				
Weather/Temperature: 70° – 84° sunny						
Location of Work: Edison, New J	, ,					
Project Personnel: Phillip Riley,		Equipment:	Visitors/Affiliation:			
• Field Team Leader: Phillip Ri	, , , , , , , , , , , , , , , , , , ,	QED Electronic interface probes	No visitors			
CQC Manager: Drew Lonerga	an	Horiba Water Quality Meter				
SSHO: Phillip Riley		Low flow bladder pumps & controller				
Others: NONE						
Work Performed by CTI:						
Traveled to Edison.						
		eeting. Performed calibration of the Horib	a WQM, completed calibration form.			
Collected groundwater samples		D using the low flow method.				
Collected field duplicate DUP-1 All field parameters were within		1:				
The samples were placed on ice		sampung.				
		been issued by the EPA CLP program.				
The lab assignment for the VOC	and Herbicide analysis has not	been issued by the LIA CLI program.				
Safety Observations/Violations/	Comments:					
		NONE				
Calibration of Field Equipment ((See Calibration Logs in File):					
Calibra	ted 1 Horiba water quality mete	er, all parameters calibrated within specific	ed tolerances.			
Certification:						
	I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this					
day and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specification, except						
as may be noted above.						
	Man A.A.					
17h	UP Thisay					
<i>V</i>						
Signature:						

DAILY QUALITY CONTROL REPORT									
Site: Chemical Insecticion	le								
Corporation Superfund S				Quality Control: D. Lonergan		Page No.:1 of1			
Date: 9-29-2014 Week No.: 1		Hours on Site:							
		c No · 1	M. Matteson - 10.0	-		Work Order & Tag	: W912DQ-11-D-3001		
		. 110 1	P. Riley - 5.0 / 9.0	offsi	te	vvoir ofuel & ful	M. VI312D Q 11 D 5001		
M. Turner - 8.0					Reviewed By: R. Stenson				
Written By: Phillip Riley					riewed By	: R. Stenson			
Weather/Temperature: 7									
Location of Work: Edisor				T					
Project Personnel: Philli			son		aipment:		Visitors/Affiliation:		
Field Team Leader: Ph	_					nic interface probes	No visitors		
CQC Manager: Drew	Lonergan					r Quality Meter			
SSHO: Phillip Riley						dder pumps & controller			
Others: NONE				Miı	niRae PID				
Work Performed by CTI:									
							VQMs and completed calibration		
						pections. Inspection forms con	npleted.		
Collected groundwater sa									
						ere within project specification	s prior to sampling. y and will be sampled with the		
bailer for VOCs on 9-30-2		u msumer	ent water column ic	or iov	v 110w Sai	nping. The wen was balled di	y and will be sampled with the		
	The Pesticide and Metals samples were hand carried to the DESA laboratory in Edison, NJ.								
	The lab assignment for the VOC and Herbicide analysis has not been formally issued by the EPA CLP program. As directed by Mr. Adly								
							cide samples were collected today.		
Safety Observations/Viol	lations/Co	omments:							
					NONE				
Calibration of Field Equi	pment (S	ee Calibrat	ion Logs in File):						
Calibra	ted 2 Hor	riba water o	quality meters and t	the P	ID. All p	arameters calibrated within spe	ecified tolerances.		
Certification:									
							spected all work performed this e plans and specification, except		
Signature:									

DAILY QUALITY	DAILY QUALITY CONTROL REPORT								
Site: Chemical Insecticide									
Corporation Superfund S	ite	, ,			Quality (Control: D. Lonergan	Page No.:1 of1		
Date: 9-30-2014 Week No.: 1		Hours on Site: M. Matteson - 10.0 / 3.0 offsite P. Riley - 12.0 offsite M. Turner - 8.0 onsite) offsite	Work Order & Task: W912DQ-11-D-3001				
Written By: Phillip Riley				Rev	Reviewed By: R. Stenson				
Weather/Temperature: 6	5º - 78º (cloudy			-				
Location of Work: Edisor	, New J	ersey							
Project Personnel: Philli	p Riley,	Matt Mattes	son, Mark Turner	Equ	uipment:		Visitors/Affiliation:		
Field Team Leader: Ph	illip Ril	ley		QE	D Electro	nic interface probes	No visitors		
CQC Manager: Drew 1	Lonerga	n		Ho	riba Wate	r Quality Meter			
SSHO: Phillip Riley				Lov	w flow bla	ndder pumps & controller			
Others: NONE									
Work Performed by CTI:									
forms. Returned the rent Monitoring well MW-4S Collected groundwater sa MS/MSD sample volume All field parameters were An equipment rinsate sa Per USEPA DESA Greg S containers are to be filled inconsequential. The Pes The VOC and Herbicide	Upon arrival at the site, conducted tailgate Health and Safety meeting. Performed calibration of the Horiba WQMs and completed calibration forms. Returned the rental trailer to the U haul in Edison. Monitoring well MW-4S was sampled with a bailer for VOCs only. Collected groundwater samples from wells QD, FU, 6BR, 7BR, BF-2D and BF-2 using the low flow method. MS/MSD sample volume for Herbicides only was collected from well QD. A complete set of duplicate samples (DUP-2) was collected at QD. All field parameters were within project specifications prior to sampling. An equipment rinsate sample was collected from the bladder pump. Per USEPA DESA Greg Santacroce, 1 liter Pesticide sample containers will be decanted and 500 ml used for analysis and future 1 liter containers are to be filled with 500 ml for analysis to accommodate solid phase extraction procedure. Effect on sample results will be inconsequential. The Pesticide and Metals samples were hand carried to the DESA laboratory in Edison, NJ. The VOC and Herbicide samples were shipped to the KAP laboratory in The Woodlands, TX.								
Safety Observations/Viol	lations/C	comments:			NONE				
Calibration of Field Equi	nment (See Calibrat	ion Loge in File).		INOINE				
•	<u> </u>			'c Λ	II naramat	tare calibrated within enecified	l toloranços		
Certification:	Calibrated 2 Horiba water quality meters. All parameters calibrated within specified tolerances.								
I certify that the above report is complete and correct and that I, or my authorized representative, have inspected all work performed this									
day and have determined that all materials, equipment, and workmanship are in strict compliance with the plans and specification, except as may be noted above. Signature:									

DAILY QUALITY CONTROL REPORT							
Site: Chemical Insecticide							
Corporation Superfund S			Quali	ty C	Control: D. Lonergan	Page No.:1 of1	
			Hours on Site:				
Date: 10-1-2014	Wee	eek No.: 1 M. Matteson - 10.0		•		Work Order & Ta	sk: W912DQ-01-D-3001
			P. Riley – 10.0 offsi				
Written By: Phillip Riley				Reviewed	By	: R. Stenson	
Weather/Temperature: 6							
Location of Work: Edisor	· ·						
Project Personnel: Philli				Equipme			Visitors/Affiliation:
 Field Team Leader: Ph 	illip Ril	ey		QED Elec	tron	nic interface probes	No visitors
CQC Manager: Drew	Lonergai	n		Horiba W	ater	r Quality Meter	
• SSHO: Phillip Riley				Low flow	bla	dder pumps & controller	
• Others: NONE							
Work Performed by CTI:							
							completed the calibration form.
						IW-3BR using the low flow m	
							icient volume. CTI returned to well
FU and re-collected the H							
							s collected from the bladder pump
						the DESA laboratory in Edis	on, NJ.
The VOC and Herbicide							l. CTI was assured the pesticide
							th requires only 500ml of sample
						lass amber bottles for analysis	
The field sampling is con				ile III 5001	ıı 5ı	iass amoer bottles for analysis	s by DESA.
Safety Observations/Viol	_		Edison on 10 2.				
				NONE	Ē.		
Calibration of Field Equi	pment (S	See Calibrat	ion Logs in File):				
(Calibrate	ed 1 Horiba	water quality meter.	All parar	nete	ers calibrated within specified	i tolerances.
Certification:							
							nspected all work performed this
	d that al	ll materials,	equipment, and wo	rkmanshi	p ar	re in strict compliance with t	the plans and specification, except
as may be noted above.							
Phillip Milay							
Signature:	Signature:						

Appendix F Data Validation Reports and Laboratory Analytical Results



2890, Woodbridge Avenue, Edison, NJ 08837

EXECUTIVE NARRATIVE

Case No.: 44719SDG No.: BBYE1Site: Chemical Insecticide Corp.Laboratory: KAP

Number of Samples: 20 (Water)

Analysis: TVOA

Sampling dates: 9/28/14-9/30/14

Validation SOP: HW-34 (Rev.3)

QAPP:

Contractor: CTI and Associates, Inc. **Reference:** DCN CIC-031111-001

SUMMARY OF DEFINITIONS:

Critical: Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.

Major: A level of uncertainty exists that may not meet the data quality objectives for the project. A bias

is likely to be present in the results. Data has been qualified "J" estimated.

Minor: The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings:

None

Major Findings:

All samples have analytes that have been qualified "J", "J+" or "J-" except for samples BBYF6, BBYF7, BBYF7DL, BBYF8, BBYF9, BBYG0 and BBYG0DL.

Minor Findings:

None

Compounds listed below have concentrations that are greater than the Remedial Goals

in the associated samples:

1,2-Dichloroethane BBYF3, BBYF4, BBYF8 and BBYG0

COMMENT: Vinyl Chloride BBYF7DL and BBYG0

Benzene BBYF7 and BBYG0

Trichloroethene BBYF3, BBYF4 and BBYF6.

Tetrachloroethene BBYF6

Reviewer Name(s): Israel Okwuonu

Approver's Signature: Date: 11/12/2014

Name: Narendra Kumar

Affiliation: USEPA/R2/HWSB/HWSS



	Data Qual	ifier Definitions (National Functional Guidelines)		
Qualifier		Explanation		
Symbol	INORGANICS	ORGANICS	CHLORINATED DIOXIN/FURAN	
U	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).	
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).	
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.		
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.		
υJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.	
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	
N		The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".		
NJ		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.		
С		This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).		
X		This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.		



2890, Woodbridge Avenue, Edison, NJ 08837

DATA ASSESSMENT

ANALYSIS: TVOA

The current SOP HW-34 (Revision 3) February 2013, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating Trace Volatile organic data has been applied. Data has been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi- Automated Screening Results Report. Tentatively Indentified Compounds (TICS) for VOA organic fraction is not validated.

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. DEUTERATED MONITORING COMPOUNDS (DMCs)

All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recovery concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J+. Non-detected compounds are not qualified.

1, 2-Dichloroethane-d4 BBYF2

- 1, 1,1-Trichloroethane, 1,1,2-Trichloro-1,2,2-trifluoroethane, 1,2-Dibromoethane,
- 1, 2-Dichloroethane, Carbon tetrachloride, Methyl acetate, Methyl tert-butyl ether, Methylene chloride. Trichlorofluoromethane

Chloroethane-d5 BBYE1, BBYE2, BBYE3, BBYE4, BBYE5, BBYE6, BBYE7, BBYE8, BBYE9, BBYF0, BBYF1, BBYF2, BBYF5, BBYF6

Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane

The following trace volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J-. Non-detected compounds are qualified UJ.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 2

DESA/HWSB/HWSS 2890, Woodbridge Avenue, Edison, NJ 08837

1, 2-Dichlorobenzene-d4 BBYF4

1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2-Dichlorobenzene, 1,3-Dichlorobenzene, 1,4-Dichlorobenzene, Chlorobenzene

1,2-Dichloropropane-d6 BBYF4, BBYF4RE

1,2-Dichloropropane, Bromodichloromethane, Cyclohexane, Methylcyclohexane

1,1,2,2-Tetrachloroethane-d2 BBYF4, BBYF4RE

1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

1,1-Dichloroethene-d2 BBYF4RE

1,1-Dichloroethene, cis-1,2-Dichloroethene, trans-1,2-Dichloroethene

trans-1,3-Dichloropropene-d4 BBYF4, BBYF4RE

1,1,2-Trichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene

3. MATRIX SPIKE/ MATRIX SPIKE RECOVERY:

MS/MSD data is generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data.

Not applicable.

4. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as non-detects, "U". Qualifications were applied to the samples and analytes as shown below.

A) Method blank contamination:

The following trace volatile samples have analyte concentrations reported below the CRQL. The associated method blank concentration is less than the concentration criteria. Detected compounds are qualified U. Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

m,p-Xylene BBYF7

Bromomethane BBYF5

Toluene BBYF7

B) Field or rinse blank contamination:

No additional qualification due to rinse blank contamination.



2890, Woodbridge Avenue, Edison, NJ 08837

C) Trip blank contamination:

No additional qualification due to trip blank contamination.

D) Storage Blank associated with VOA samples only:

The following trace volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated storage blank has common contaminant analyte concentration less than 2x the concentration criteria. Detected compounds are qualified U. Non-detected compounds are not qualified. Reported sample concentrations have been elevated to the CRQL.

Methylene chloride BBYG0DL

E) Tentatively Identified Compounds:

Tentatively Indentified Compounds (TICs) for VOA organic fraction are not validated.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene. If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05 , and ≥ 0.01 for the poor performers in both the initial and continuing calibrations. A value < 0.05, or < 0.01 for the poor performers indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

No problems were found for this criterion.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be $\leq 30\%$ for all TCL analytes, and $\leq 40\%$ for poor performers. %D must be $\leq 30\%$ for all TCL analytes and $\leq 40\%$ for the poor performers. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J". Non-detects are flagged "UJ" for %D value outside criteria only. If %RSD and %D grossly exceed QC criteria (>90%), non-detects data may be qualified "R". Qualifications were applied to the samples and analytes as shown below.

The following trace volatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

Bromoform

BBYE1, BBYE2, BBYE3, BBYE4, BBYE5, BBYE6, BBYE7, BBYE8, BBYE9, BBYF0, BBYF1, BBYF2, BBYF3, VBLK07

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must be in the range of 60% - 140 % of the associated continuing calibration internal standard area. The retention time of the internal standards must not vary more than □ 20 seconds from the associated continuing calibration standard. If the area count is greater than 140%, all positive results quantitated using that IS are qualified as estimated "J", and non-detects are not qualified. If the area count is less than 60% of the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J" and all non-detects are qualified "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

8. FIELD DUPLICATES:

No problems were found for this criterion.

9. COMPOUND IDENTIFICATION:

A) Trace Volatile Fractions:

TCL compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the



results to be a positive hit, the sample peak must be within □ 0.06 RRT units of the

standard compound and have ion spectra which have a ratio of the primary and secondary m/e intensities within 20% of that in the standard compound.

For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications.

No problems were found for this criterion.

10. CONTRACT PROBLEMS NON-COMPLIANCE:

None

11. FIELD DOCUMENTATION:

No problems were identified.

12. OTHER PROBLEMS:

None

13. Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable sample and analytes.



EXECUTIVE NARRATIVE

Case No.: 44719SDG No.:BBYG1Site: Chemical Insecticide Corp.Laboratory: KAP

Number of Samples: 5 (Water)

Sampling dates: 09/30/2014-10/01/2014

Analysis: TVOA, Herbicides (MA # 2081.5)

Validation SOP: HW34 (Rev3.), HW17 (Rev3.1)

QAPP:

Contractor: CTI & Associates, Inc Reference: CIC-031111-001

SUMMARY OF DEFINITIONS:

Critical: Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.

Major: A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data has been qualified "J" estimated. "J+" and "J-" represent likely direction of the bias.

Minor: The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings:

None.

Major Findings:

TVOA: Samples BBYG1, BBYG3 and BBYG4 have analytes that have been qualified "J", "J+" or "J-".

Minor Findings:

None.

COMMENTS: TVOA: Samples BBYG2 and BBYG2DL have analytes with concentrations greater than

their Remediation Goal.

Reviewer Name(s): Archana Mirle

Approver's Signature: Date: 11/12/2014

Name: Narendra Kumar

Affiliation: USEPA/R2/HWSB/HWSS



	Data Quai	ifier Definitions (National Functional Guidelines)	
Qualifier		Explanation	
Symbol	INORGANICS	ORGANICS	CHLORINATED DIOXIN/FURAN
U	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.	
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.	
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
N		The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".	
NJ		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	
С		This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).	
X		This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.	



2890, Woodbridge Avenue, Edison, NJ 08837

DATA ASSESSMENT

ANALYSIS: TVOA

The current SOP HW-34 (Revision 3) February 2013, USEPA Region II Data Validation SOP for Statement of Work SOM01.2 for evaluating Trace Volatile organic data has been applied. Data has been reviewed according to TDF specifications, the National Functional Guidelines Report and the CCS Semi- Automated Screening Results Report. Tentatively Indentified Compounds (TICs) for TVOA organic fraction is not validated.

1. **HOLDING TIME:**

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. **DEUTERATED MONITORING COMPOUNDS (DMC's):**

All samples are spiked with DMC compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured DMC recovery concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following volatile samples have DMC/SMC recoveries above the upper limit of the criteria window. Detected compounds are qualified J+. Non-detected compounds are not qualified.

Chloroethane-d5 BBYG5

Bromomethane, Carbon disulfide, Chloroethane, Chloromethane, Dichlorodifluoromethane

The following trace volatile samples have one or more DMC/SMC recovery values less than the primary lower limit but greater than or equal to the expanded lower limit of the criteria window. Detected compounds are qualified J-. Non-detected compounds are qualified UJ.

1,1,2,2-Tetrachloroethane-d2 BBYG1

1,1,2,2-Tetrachloroethane, 1,2-Dibromo-3-chloropropane

trans-1,3-Dichloropropene-d4 BBYG1, BBYG3, BBYG4

1,1,2-Trichloroethane, cis-1,3-Dichloropropene, trans-1,3-Dichloropropene

3. MATRIX SPIKE/ MATRIX SPIKE RECOVERY:



2890, Woodbridge Avenue, Edison, NJ 08837

MS/MSD data is generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD data may be used in conjunction with other QC criteria for additional qualification of data.

Not applicable.

4. **BLANK CONTAMINATION:**

Quality assurance (QA) blanks, i.e., method, trip, field, or rinse blanks are prepared to identify any contamination which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Trip blanks measure cross-contamination of samples during shipment. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the amount of contamination present in the QA blanks, the analytes are qualified as non-detects, "U". Qualifications were applied to the samples and analytes as shown below.

A) Method blank contamination:

The following trace volatile samples have common contaminant analyte concentrations reported less than 2x the CRQL. The associated method blank has common contaminant analyte concentration less than 2x the CRQL. Detected compounds are qualified U. Non-detected compounds are not qualified. Sample concentrations have been reported at the CRQL.

Methylene chloride BBYG2DL

B) Field or rinse blank contamination:

No problems were found for this criterion.

C) Trip blank contamination:

The following trace volatile samples have common contaminant analyte concentrations reported greater than 2x the CRQL and less than trip blank concentration. The associated trip blank has common contaminant analyte concentration greater than 2x the CRQL. Reported concentration of the analyte in the sample at the same concentration found in the trip blank and have been qualified U. Non-detected compounds are not qualified.

Acetone BBYG3

D) Storage Blank associated with VOA samples only:

No additional qualification required due to storage blank contamination.

E) Tentatively Identified Compounds:

Tentatively Identified Compounds (TICs) for TVOA organic fraction are not validated.

5. MASS SPECTROMETER TUNING:

Tuning and performance criteria are established to ensure adequate mass resolution, proper identification of compounds and to some degree, sufficient instrument sensitivity. These criteria are not sample specific. Instrument performance is determined using



2890, Woodbridge Avenue, Edison, NJ 08837

standard materials. Therefore, these criteria should be met in all circumstances. The tuning standard for volatile organics is (BFB) Bromofluorobenzene. If the mass calibration is in error, all associated data will be classified as unusable "R". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Response Factor GC/MS:

The response factor measures the instrument's response to specific chemical compounds. The response factor for the Target Compound List (TCL) must be ≥ 0.05 , and ≥ 0.01 for the poor performers in both the initial and opening continuing calibrations. For closing continuing calibration response factor for all target compounds must be ≥ 0.01 . A value < 0.05 for target compounds or < 0.01 for the poor performers indicates a serious detection and quantitation problem (poor sensitivity). Analytes detected in the sample will be qualified as estimated, "J". All non-detects for that compound will be rejected "R".

No problems were found for this criterion.

B) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

Percent RSD is calculated from the initial calibration and is used to indicate the stability of the specific compound response factor over increasing concentration. Percent D compares the response factor of the continuing calibration check to the mean response factor (RRF) from the initial calibration. Percent D is a measure of the instrument's daily performance. Percent RSD must be \leq 30% for all TCL analytes, and \leq 40% for poor performers. %D must be \leq 30% for all TCL analytes and \leq 40% for the poor performers for opening CCV. %D must be \leq 50% for all TCL analytes for closing CCV. A value outside of these limits indicates potential detection and quantitation errors. For these reasons, all positive results are flagged as estimated, "J". Non-detects are flagged "UJ" for %D values outside criteria only. If %RSD exceeds QC criteria, non-detects may be qualified using professional judgement. Qualifications were applied to the samples and analytes as shown below.

The following trace volatile samples are associated with an opening or closing CCV percent difference (%D) outside criteria. Detected compounds are qualified J. Non-detected compounds are qualified UJ.

Bromoform BBYG4, VBLK07

7. INTERNAL STANDARDS PERFORMANCE GC/MS:

Internal standards (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. The internal standard area count must



2890, Woodbridge Avenue, Edison, NJ 08837

be in the range of 60% - 140 % of the associated continuing calibration internal standard area. The retention time of the internal standards must not vary more than □ 20 seconds from the associated continuing calibration standard. If the area count is greater than 140%, all positive results quantitated using that IS are qualified as estimated "J-", and non-detects are not qualified. If the area count is less than 60% of the associated standard, all positive results for compounds quantitated with that IS are qualified as estimated "J+" and all non-detects are qualified "R".

If an internal standard retention time varies by more than 20 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

8. FIELD DUPLICATES:

Not applicable.

9. COMPOUND IDENTIFICATION:

Target compounds are identified on the GC/MS by using the analyte's relative retention time (RRT) and by comparison to the ion spectra obtained from known standards. For the results to be a positive hit, the sample peak must be within a window of 0.06 RRT units of the standard compound and have ion spectra which has a ratio of the primary and secondary m/z intensities within 20% of that in the standard compound. For the tentatively identified compounds (TIC) the ion spectra must match accurately. In the cases where there is not an adequate ion spectrum match, the laboratory may have provided false positive identifications. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

10. CONTRACT PROBLEMS NON-COMPLIANCE:

No problems were found for this criterion.

11. FIELD DOCUMENTATION:

No problems were identified.

12. OTHER PROBLEMS:

None.

13. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.

ANALYSIS: HERBICIDE (MA # 2081.5)



2890, Woodbridge Avenue, Edison, NJ 08837

The current SOP HW-17 (Revision 3.1) December 2010, USEPA Region II Data Validation SOP for evaluating organic data has been applied.

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

The following herbicide matrix/matrix spike duplicate samples have percent recoveries that are greater than the upper acceptance limit. Detected compounds are qualified J. Non-detected compounds are not qualified.

Dinoseb BBYG5, BBYG5MS, BBYG5MSD

4. LABORATORY CONTROL RECOVERY (LCS):

The LCS data is generated to determine the long-term precision and accuracy of the analytical method. The LCS may be used in conjunction with other QC criteria for additional qualification of data.

No problems were found for this criterion.

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending



2890, Woodbridge Avenue, Edison, NJ 08837

on the concentration of the analyte in the blank, the analytes are qualified as non-detects, "U".

The following analytes in the sample shown were qualified "U" for these reasons:

A) Method/Instrument blank contamination:

No problems were found for this criterion.

B) Field or rinse blank contamination:

No problems were found for this criterion.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

For the HERBCIDE fraction, if %RSD exceeds 25% for any analytes, qualify all associated positive results "J" and non-detected associated compounds are qualified "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

B) The Percent Difference (%D) for each of the analytes in the CCV must be greater than or equal to -25% and less than or equal to 25.0%. If Percent Difference exceeds ± 25%, detected associated compounds are qualified "J" and non-detected associated compounds are qualified "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

7. FIELD DUPLICATES:

Not applicable.

8. COMPOUND IDENTIFICATION:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract. Qualifications were applied to the samples and analytes as shown below.

The following herbicide samples have percent differences between analyte results exceeding 90%. Using professional judgment, detected compounds are qualified J.

Dinoseb BBYG5, BBYG5MS, BBYG5MSD



9. CONTRACT PROBLEMS NON-COMPLIANCE:

None.

10. FIELD DOCUMENTATION:

No problems were identified.

11. OTHER PROBLEMS:

None.

12. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable samples and analytes.



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

Region 2 Laboratory 2890 Woodbridge Avenue Edison , New Jersey 08837 732-906-6886 Phone 732-906-6165 Fax

November 13, 2014

Robert Stenson CTI & Associates P.O. Box 276 Cleveland, WI 53015-0276

RE: Chemical Insecticide Corp. - 1409056

James Ferres

Enclosed are the results of analyses for samples received by the laboratory between 9/30/2014 and 10/2/2014. The signature below reflects the laboratory's approval of the reported results. If you have any questions concerning this report, please refer to Project Number 1409056 and contact John Birri by phone at 732-906-6886, or via Email at birri.john@epa.gov.

Sincerely,

James Ferretti

Acting Chief, DESA/LB



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region 2 Laboratory

Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

Project Narrative:

The National Environmental Laboratory Accreditation Conference Institute (TNI) is a voluntary environmental laboratory accreditation association of State and Federal agencies. TNI established and promoted a National Environmental Laboratory Accreditation Program (NELAP) that provides a uniform set of standards for the generation of environmental data that are of known and defensible quality. The EPA Region 2 Laboratory is NELAP accredited. The Laboratory tests that are accredited have met all the requirements established under the TNI Standards.

Condition	Comments
Condition	Comments

None

Comment(s):

None

Data Qualifier(s):

- U- The analyte was not detected at or above the Reporting Limit.
- J- The identification of the analyte is acceptable; the reported value is an estimate.
- K- The identification of the analyte is acceptable; the reported value may be biased high.
- L- The identification of the analyte is acceptable; the reported value may be biased low.
- NJ- There is presumptive evidence that the analyte is present; the analyte is reported as a tentative identification.

The reported value is an estimate.

Reporting Limit(s):

The Laboratory was able to achieve the appropriate limits for each analyte requested.

Reported: 11/13/2014 Page 1 of 11



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region 2 Laboratory

Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

SUMMARY REPORT FOR SAMPLES

Field ID	Laboratory ID	Matrix	Date Sampled	Date Received
BBYE2	1409056-01	Aqueous	09/28/2014 14:10	09/30/2014 07:40
BBYE3	1409056-02	Aqueous	09/28/2014 14:10	09/30/2014 07:40
BBYE4	1409056-03	Aqueous	09/28/2014 16:31	09/30/2014 07:40
BBYE5	1409056-04	Aqueous	09/29/2014 11:10	09/30/2014 07:40
BBYE6	1409056-05	Aqueous	09/29/2014 12:45	09/30/2014 07:40
BBYE7	1409056-06	Aqueous	09/29/2014 13:30	09/30/2014 07:40
BBYE8	1409056-07	Aqueous	09/29/2014 15:40	09/30/2014 07:40
BBYE9	1409056-08	Aqueous	09/29/2014 13:55	09/30/2014 07:40
BBYF9	1410001-01	Aqueous	09/30/2014 15:04	10/01/2014 07:30
BBYG0	1410001-02	Aqueous	09/30/2014 15:35	10/01/2014 07:30
BBYE8	1410001-03	Aqueous	09/29/2014 15:40	10/01/2014 07:30
BBYF5	1410001-04	Aqueous	09/30/2014 11:38	10/01/2014 07:30
BBYF6	1410001-05	Aqueous	09/30/2014 14:15	10/01/2014 07:30
BBYF7	1410001-06	Aqueous	09/30/2014 14:35	10/01/2014 07:30
BBYF8	1410001-07	Aqueous	09/30/2014 12:45	10/01/2014 07:30
BBYF3	1410001-08	Aqueous	09/30/2014 10:10	10/01/2014 07:30
BBYF4	1410001-09	Aqueous	09/30/2014 10:10	10/01/2014 07:30
BBYG2	1410004-01	Aqueous	10/01/2014 09:35	10/02/2014 07:30
BBYG3	1410004-02	Aqueous	10/01/2014 13:50	10/02/2014 07:30
BBYG4	1410004-03	Aqueous	10/01/2014 12:25	10/02/2014 07:30
BBYG5	1410004-04	Aqueous	10/01/2014 14:45	10/02/2014 07:30

Reported: 11/13/2014 Page 2 of 11



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY Region 2 Laboratory

Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

SUMMARY REPORT FOR METHODS

Analysis	Method	Certification	Matrix
Metals ICP TAL	EPA 200.7 SOP C-109 Rev3.2	NELAP	Aqueous
Metals ICPMS TAL	EPA 200.8 SOP C-112 Rev 3.2	NELAP	Aqueous
Pesticides SOM1.1 Superfund	EPA 608 SOP C-91 Rev3.2	NELAP	Aqueous

Reported: 11/13/2014 Page 3 of 11



Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

Analyte Result Qualifier Limit Units

Analyte	Kesult	Qualifier	Limit	Units	
Field ID: BBYE2			San	nple ID: 14090	056-01
Pesticides GC					
alpha-BHC		U	0.0049	ug/L	
gamma-BHC (Lindane)		U	0.0049	ug/L	
beta-BHC		U	0.0049	ug/L	
delta-BHC		UJ	0.0049	ug/L	
Metals ICPMS					
Arsenic		U	1.0	ug/L	
Field ID: BBYE3			San	nple ID: 14090	056-02
Pesticides GC					
alpha-BHC		U	0.0051	ug/L	
gamma-BHC (Lindane)		U	0.0051	ug/L	
beta-BHC		U	0.0051	ug/L	
delta-BHC		UJ	0.0051	ug/L	
Field ID: BBYE4			San	nple ID: 14090	056-03
Pesticides GC					
alpha-BHC		U	0.0050	ug/L	
gamma-BHC (Lindane)		U	0.0050	ug/L	
beta-BHC		U	0.0050	ug/L	
delta-BHC		UJ	0.0050	ug/L	
Metals ICPMS					
Arsenic	2.4		1.0	ug/L	

Reported: 11/13/2014 Page 4 of 11



Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

	Analyte	Result	Qualifier	Reporting Limit	Units	
Field ID:	BBYE5			Sam	nple ID: 14090	956-04
Pestic	cides GC					
	alpha-BHC		U	0.0047	ug/L	
	gamma-BHC (Lindane)		U	0.0047	ug/L	
	beta-BHC		U	0.0047	ug/L	
	delta-BHC		UJ	0.0047	ug/L	
Meta	ls ICPMS					
	Arsenic	3.0		1.0	ug/L	
Field ID:	BBYE6			Sam	nple ID: 14090	056-05
Pestic	cides GC					
	alpha-BHC		U	0.0051	ug/L	
	gamma-BHC (Lindane)		U	0.0051	ug/L	
	beta-BHC		U	0.0051	ug/L	
	delta-BHC		UJ	0.0051	ug/L	
Meta	ls ICPMS					
	Arsenic	1.3		1.0	ug/L	
Field ID:	BBYE7			Sam	ple ID: 14090	956-06
Pestic	cides GC					
	alpha-BHC		U	0.0047	ug/L	
	gamma-BHC (Lindane)		U	0.0047	ug/L	
	beta-BHC		U	0.0047	ug/L	

Metals ICPMS

delta-BHC

Reported: 11/13/2014 Page 5 of 11

U J

0.0047

ug/L



Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

	Analyte	Result	Qualifier	Reporting Limit	Units	
Field ID:	BBYE7			Sam	ple ID: 14090)56-06
Meta	ls ICPMS					
	Arsenic		U	1.0	ug/L	
Field ID:	BBYE8			Sam	ple ID: 14090	056-07
Pesti	cides GC					
	alpha-BHC		U	0.0049	ug/L	
	gamma-BHC (Lindane)		U	0.0049	ug/L	
	beta-BHC		U	0.0049	ug/L	
	delta-BHC		UJ	0.0049	ug/L	
Field ID: BBYE9				Sam	ple ID: 14090)56-08
Pesti	cides GC					
	alpha-BHC		U	0.0054	ug/L	
	gamma-BHC (Lindane)		U	0.0054	ug/L	
	beta-BHC		U	0.0054	ug/L	
	delta-BHC		UJ	0.0054	ug/L	
Meta	ls ICPMS					
	Arsenic		U	1.0	ug/L	
Field ID:	BBYF9			Sam	ple ID: 14100	001-01
Pesti	cides GC					
	alpha-BHC		U	0.0050	ug/L	
	gamma-BHC (Lindane)		U	0.0050	ug/L	
	beta-BHC		U	0.0050	ug/L	

Reported: 11/13/2014 Page 6 of 11



Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

Reporting Result Qualifier Units Limit Analyte Field ID: BBYF9 Sample ID: 1410001-01 **Pesticides GC** delta-BHC 0.0050 U J ug/L **Metals ICPMS** Arsenic U 1.0 ug/L Field ID: BBYG0 Sample ID: 1410001-02 **Pesticides GC** alpha-BHC 1.1 0.050 ug/L gamma-BHC (Lindane) U 0.0050 ug/L beta-BHC 0.48 0.050 ug/L delta-BHC 2.4 ug/L J 0.10 **Metals ICP** 300 8.0 Arsenic ug/L Field ID: BBYE8 Sample ID: 1410001-03 **Metals ICPMS** 2.6 Arsenic 1.0 ug/L Sample ID: 1410001-04 Field ID: BBYF5 **Pesticides GC** alpha-BHC 0.026 0.0045 ug/L U 0.0045 ug/L gamma-BHC (Lindane) beta-BHC U 0.0045 ug/L delta-BHC U J 0.0045 ug/L

Reported: 11/13/2014 Page 7 of 11



Project:Chemical Insecticide Corp. - 1409056

Project Number: 1409056

	Analyte	Result	Qualifier	Reporting Limit	Units	
Field ID:	BBYF5			Sar	mple ID: 14100	001-04
Meta	ls ICPMS					
	Arsenic		U	1.0	ug/L	
Field ID:	BBYF6			Sar	mple ID: 14100	001-05
Pesti	cides GC					
	alpha-BHC		U	0.0045	ug/L	
	gamma-BHC (Lindane)		U	0.0045	ug/L	
	beta-BHC		U	0.0045	ug/L	
	delta-BHC		UJ	0.0045	ug/L	
Meta	ls ICPMS					
	Arsenic		U	1.0	ug/L	
Field ID:	BBYF7			Sar	mple ID: 14100	001-06
Pesti	cides GC					
	alpha-BHC	0.56		0.046	ug/L	
	gamma-BHC (Lindane)		U	0.0046	ug/L	
	beta-BHC	0.24		0.046	ug/L	
	delta-BHC	2.1	J	0.093	ug/L	
Meta	ls ICPMS					
	Arsenic	4.0		1.0	ug/L	
Field ID:	BBYF8			Sar	mple ID: 14100	001-07
Pesti	cides GC					
	alpha-BHC	0.0050		0.0046	ug/L	

Reported: 11/13/2014 Page 8 of 11



Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

Analyte	Result	Qualifier	Reporting Limit	Units	
Field ID: BBYF8			San	nple ID: 14100	01-07
Pesticides GC					
gamma-BHC (Lindane)		U	0.0046	ug/L	
beta-BHC	0.0051		0.0046	ug/L	
delta-BHC	0.016	J	0.0046	ug/L	
Metals ICPMS					
Arsenic	1.7		1.0	ug/L	
Field ID: BBYF3		Sample ID: 1410001-08			
Pesticides GC					
alpha-BHC	0.025		0.0046	ug/L	
gamma-BHC (Lindane)	0.029		0.0046	ug/L	
beta-BHC		U	0.0046	ug/L	
delta-BHC	0.0083	J	0.0046	ug/L	
Metals ICPMS					
Arsenic		U	1.0	ug/L	
Field ID: BBYF4			San	nple ID: 14100	01-09
Pesticides GC					
alpha-BHC	0.027		0.0046	ug/L	
gamma-BHC (Lindane)	0.019		0.0046	ug/L	
beta-BHC		U	0.0046	ug/L	
delta-BHC	0.0075	J	0.0046	ug/L	
Metals ICPMS					
Arsenic		U	1.0	ug/L	

Reported: 11/13/2014 Page 9 of 11



Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

	roject rumber.	1107030			
Analyte	Result	Qualifier	Reporting Limit	Units	
Field ID: BBYG2			San	nple ID: 1410004-01	
Pesticides GC					
alpha-BHC	0.43		0.046	ug/L	
gamma-BHC (Lindane)		U	0.0046	ug/L	
beta-BHC		U	0.0046	ug/L	
delta-BHC	2.1	J	0.093	ug/L	
Metals ICPMS					
Arsenic	170		1.0	ug/L	
Field ID: BBYG3			Sam	nple ID: 1410004-02	
Pesticides GC					
alpha-BHC		U	0.0045	ug/L	
gamma-BHC (Lindane)		U	0.0045	ug/L	
beta-BHC		U	0.0045	ug/L	
delta-BHC	0.0063	J	0.0045	ug/L	
Metals ICPMS					
Arsenic		U	1.0	ug/L	
Field ID: BBYG4			Sam	nple ID: 1410004-03	
Pesticides GC					
alpha-BHC		U	0.0045	ug/L	
gamma-BHC (Lindane)		U	0.0045	ug/L	
beta-BHC		U	0.0045	ug/L	
delta-BHC		UJ	0.0045	ug/L	
Metals ICPMS					

Reported: 11/13/2014 Page 10 of 11



Project:Chemical Insecticide Corp. - 1409056 Project Number: 1409056

Analyte	Result	Qualifier	Reporting Limit	Units	
Field ID: BBYG4			San	ple ID: 1410004-03	
Metals ICPMS					
Arsenic	1.6		1.0	ug/L	
Field ID: BBYG5			Sam	ple ID: 1410004-04	
Pesticides GC					
alpha-BHC		U	0.0045	ug/L	
gamma-BHC (Lindane)		U	0.0045	ug/L	
beta-BHC		U	0.0045	ug/L	
delta-BHC		UJ	0.0045	ug/L	
Metals ICPMS					
Arsenic		U	1.0	ug/L	

Reported: 11/13/2014 Page 11 of 11



EXECUTIVE NARRATIVE

Case No. : 44719	SDG No.: BBYE1
Site: Chemical Insecticide Corp.	Laboratory: KAP

Number of Samples: 4 (Water)

Analysis: Herbicide (MA # 2081.5)

Sampling dates: 9/28/14-9/30/14

Validation SOP: HW-17(Rev.3.1)

QAPP:

Contractor: CTI and Associates, Inc. **Reference:** DCN CIC-031111-001

SUMMARY OF DEFINITIONS:

Critical: Results have an unacceptable level of uncertainty and should not be used for making decisions. Data have been qualified "R" rejected.

Major: A level of uncertainty exists that may not meet the data quality objectives for the project. A bias is likely to be present in the results. Data has been qualified "J" estimated "J+" and "J-" represent likely direction of the bias.

Minor: The level of uncertainty is acceptable. No significant bias in the data was observed.

Critical Findings:

None.

Major Findings:

Samples BBYF3, BBYF4 and BBYF5 have anaytes that have been qualified "J", "J+" or "J-".

Minor Findings:

None.

COMMENTS: None.

Reviewer Name(s): Israel Okwuonu

Approver's Signature: Date: 11/12/2014

Name: Narendra Kumar

Affiliation: USEPA/R2/HWSB/HWSS



	Data Quai	ifier Definitions (National Functional Guidelines)	
Qualifier		Explanation	
Symbol	INORGANICS	ORGANICS	CHLORINATED DIOXIN/FURAN
U	The analyte was analyzed for, but was not detected above the level of the reported quantitation limit.	The analyte was analyzed for, but was not detected at a level greater than or equal to the level of the adjusted Contract Required Quantitation Limit (CRQL) for sample and method	The analyte was analyzed for but not detected. The value preceding the "U" may represent the adjusted Contract Required Quantitation Limit (see DLM02.X, Exhibit D, Section 1.2 and Table 2), or the sample specific estimated detection limit (EDL, see Method 8290A, Section 11.9.5).
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to the quality of the data generated because certain quality control criteria were not met, or the concentration of the analyte was below the CRQL.	The analyte was positively identified and the associated numerical value is the approximate concentration of the analyte in the sample (due either to an issue with the quality of the data generated because certain QC criteria were not met, or the concentration of the analyte was below the adjusted CRQL).
J+	The result is an estimated quantity, but the result may be biased high.	The result is an estimated quantity, but the result may be biased high.	
J-	The result is an estimated quantity, but the result may be biased low.	The result is an estimated quantity, but the result may be biased low.	
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate and may be inaccurate or imprecise.	The analyte was not detected at a level greater than or equal to the adjusted CRQL. However, the reported adjusted CRQL is approximate and may be inaccurate or imprecise.	The analyte was not detected (see definition of "U" flag, above). The reported value should be considered approximate.
R	The data are unusable. The sample results are rejected due to serious deficiencies in meeting Quality Control (QC) criteria. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.	The sample results are unusable due to the quality of the data generated because certain criteria were not met. The analyte may or may not be present in the sample.
N		The analysis indicates the presence of an analyte for which there is presumptive evidence to make a "tentative identification".	
NJ		The analysis indicates the presence of an analyte that has been "tentatively identified" and the associated numerical value represents its approximate concentration.	
С		This qualifier applies to pesticide and Aroclor results when the identification has been confirmed by Gas Chromatograph/Mass Spectrometer (GC/MS).	
X		This qualifier applies to pesticide and Aroclor results when GC/MS analysis was attempted but was unsuccessful.	



DATA ASSESSMENT

ANALYSIS: HERB (MA # 2081.5)

The current SOP HW-17 (Revision 3.1) December 2010, USEPA Region II Data Validation SOP for evaluating organic data has been applied.

1. HOLDING TIME:

The amount of an analyte in a sample can change with time due to chemical instability, degradation, volatilization, etc. If the specified holding time is exceeded, the data may not be valid. Those analytes detected in the samples whose holding time has been exceeded will be qualified as estimated, "J". The non-detects (sample quantitation limits) will be flagged as estimated, "J", or unusable, "R", if the holding times are grossly exceeded. Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

2. SURROGATES

All samples are spiked with surrogate compounds prior to sample preparation to evaluate overall laboratory performance and efficiency of the analytical technique. If the measured surrogate concentrations were outside contract specifications, qualifications were applied to the samples and analytes as shown below.

The following pesticide samples have surrogate percent recoveries greater than 150%. Detected compounds are qualified J. Non-detected compounds are not qualified.

2, 4-dichlorophenylacetic acid (DCAA) BBYF3, BBYF3MS, BBYF3MSD, BBYF4 Dinoseb

3. MATRIX SPIKE/SPIKE DUPLICATE, MS/MSD:

The MS/MSD data are generated to determine the long-term precision and accuracy of the analytical method in various matrices. The MS/MSD may be used in conjunction with other QC criteria for additional qualification of data.

The following pesticide matrix/matrix spike duplicate samples have percent recoveries that are greater than the upper criteria limit. Detected compounds are qualified J. Non-detected compounds are not qualified.

Dinoseb BBYF3, BBYF3MS, BBYF3MSD

The relative percent difference between pesticide analyte results is greater than the upper acceptance limit. Detected compounds are qualified J. Non-detected compounds are not qualified.

Dinoseb BBYF3, BBYF3MS, BBYF3MSD



4. LABORATORY CONTROL RECOVERY (LCS):

The LCS data is generated to determine the long-term precision and accuracy of the analytical method. The LCS may be used in conjunction with other QC criteria for additional qualification of data.

No problems were found for this criterion.

5. BLANK CONTAMINATION:

Quality assurance (QA) blanks, i.e., method, field, or rinse blanks are prepared to identify any contamination, which may have been introduced into the samples during sample preparation or field activity. Method blanks measure laboratory contamination. Field and rinse blanks measure cross-contamination of samples during field operations. Depending on the concentration of the analyte in the blank, the analytes are qualified as non-detects, "U".

The following analytes in the sample shown were qualified "U" for these reasons:

A) Method/Instrument blank contamination:

No problems were found for this criterion.

B) Field or rinse blank contamination:

No problems were found for this criterion.

6. CALIBRATION:

Satisfactory instrument calibration is established to ensure that the instrument is capable of producing acceptable quantitative data. An initial calibration demonstrates that the instrument is capable of giving acceptable performance at the beginning of an experimental sequence. The continuing calibration checks document that the instrument is giving satisfactory daily performance.

A) Percent Relative Standard Deviation (%RSD) and Percent Difference (%D):

For the HERBCIDE fraction, if %RSD exceeds 25% for any analytes, qualify all associated positive results "J" and non-detected associated compounds are qualified "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.

B) The Percent Difference (%D) for each of the analytes in the CCV must be greater than or equal to -25% and less than or equal to 25.0%. If Percent Difference exceeds ± 25%, detected associated compounds are qualified "J" and non-detected associated compounds are qualified "UJ". Qualifications were applied to the samples and analytes as shown below.

No problems were found for this criterion.



7. FIELD DUPLICATES:

No problems were found for this criterion.

8. COMPOUND IDENTIFICATION:

The retention times of reported compounds must fall within the calculated retention time windows for the two chromatographic columns and a GC/MS confirmation is required if the concentration exceeds 10ng/ml in the final sample extract. Qualifications were applied to the samples and analytes as shown below.

The following pesticide samples have percent differences between analyte results in the range of 26-50%. Detected compounds are qualified J.

Dinoseb BBYF3MSD, BBYF4

The following pesticide samples have percent differences between analyte results exceeding 90%. Detected compounds are qualified R.

Dinoseb BBYF3MS

9. CONTRACT PROBLEMS NON-COMPLIANCE:

None.

10. FIELD DOCUMENTATION:

No problems were identified.

11. OTHER PROBLEMS:

None.

12. DILUTIONS, RE-EXTRACTIONS & REANALYSIS:

Samples may be re-analyzed for dilution, re-extraction and for other QC reasons. In such cases, the best result values are used. See summary report and EDD for applicable sample and analytes.

Sample Summary Report

Case No: 44719	Contract:	EPW11031		SDG No:	BBYE1	Lab Code:	KAP
Sample Number: BB	YE1	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location: TB-	-1	pH:	2	Sample Date:	09/28/2014	Sample Time:	08:00:00
% Moisture :				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	2.8	J	UG/L	2.8	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	9.8	NJ	UG/L	9.8	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE2 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: NUS-3S pH: 2 Sample Date: 09/28/2014 Sample Time: 14:10:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2,2-Dimethyl- 5,7-dinitro-1,3- diazaadamantane	TIC	2.8	NJ	UG/L	2.8	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE3 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: DUP-1 pH: 2 Sample Date: 09/28/2014 Sample Time: 14:10:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	9.9	NJ	UG/L	9.9	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE4 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: NUS-2D pH: 2 Sample Date: 09/28/2014 Sample Time: 16:31:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	9.7	NJ	UG/L	9.7	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE5 VOA_Trace Water MA Number: DEFAULT Method: Matrix: Sample Location: MW-4BR pH: 2 Sample Date: 09/29/2014 Sample Time: 11:10:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.83		UG/L	0.83		1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE6 VOA_Trace Water MA Number: DEFAULT Method: Matrix: Sample Location: GU pH: 2 Sample Date: 09/29/2014 Sample Time: 12:45:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.53		UG/L	0.53		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE7 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: MW-2S pH: 2 Sample Date: 09/29/2014 Sample Time: 13:30:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	10	NJ	UG/L	10	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE8 VOA_Trace Water MA Number: DEFAULT Method: Matrix: Sample Location: MW-2BR pH: 2 Sample Date: 09/29/2014 Sample Time: 15:40:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYE9 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: BF-4 pH: 2 Sample Date: 09/29/2014 Sample Time: 13:55:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.31	J	UG/L	0.31	J	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
e cis-1,3- dichloropropene- d4	TIC	9.6	NJ	UG/L	9.6	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethyl 6-methyl- 2-oxo-4-(2- thienyl)-1,2,3,4- tetrahydropyrimi dine-5- carboxylate	TIC	8.6	NJ	UG/L	8.6	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF0VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: ER-1 pH: 2 Sample Date: 09/29/2014 Sample Time: 14:30:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	3.8	J	UG/L	3.8	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	10	NJ	UG/L	10	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF1 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: TB-2 pH: 2 Sample Date: 09/30/2014 Sample Time: 07:00:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	3.9	J	UG/L	3.9	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	8.1	NJ	UG/L	8.1	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF2 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: MW-4S pH: 2 Sample Date: 09/30/2014 Sample Time: 08:04:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.17	J	UG/L	0.17	J	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF3 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: QD pH: 2 Sample Date: 09/30/2014 Sample Time: 10:10:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.16	J	UG/L	0.16	J	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	2.6		UG/L	2.6		1.0	Yes	S3VEM
Trichloroethene	Target	1.5		UG/L	1.5		1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.22	J	UG/L	0.22	J	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.46	J	UG/L	0.46	J	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.54		UG/L	0.54		1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	2.6		UG/L	2.6		1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV

Case No: 4471	9 Contrac	ct: EPW11031		SDG No:	BBYE1	Lab Code:	KAP
Sample Number:	BBYF3	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Location:	QD	pH:	5.9	Sample Dat	e: 09/30/2014	Sample Time:	10:10:00
% Moisture:				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	2.5	J	UG/L	2.5	P	1.0	Yes	S3VEM

Case No: 4471	9 Contract:	EPW11031		SDG No:	BBYE1	Lab Code:	KAP
Sample Number:	BBYF3MS	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Location:	S-6733.03	pH:	5.9	Sample Date:	09/30/2014	Sample Time:	10:10:00
% Moisture:				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	2.8	R	UG/L	2.8	P	1.0	Yes	S3VEM

Case No:	44719	Contract:	EPW11031		SDG No:	BBYE1	Lab Code:	KAP
Sample Nu	mber:	BBYF3MSD	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Loc	cation:	S-6733.03	pH:	5.9	Sample Date:	09/30/2014	Sample Time:	10:10:00
% Moistur	e :				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	3.1	J	UG/L	3.1	P	1.0	Yes	S3VEM

Case No: 4471	9 Contract:	EPW1103	I	SDG No:	BBYE1	Lab Code:	KAP
Sample Number:	BBYF4	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Location:	DUP-2	pH:	6.0	Sample Date:	09/30/2014	Sample Time:	10:10:00
% Moisture:				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	2.6	J	UG/L	2.6	P	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF4 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: DUP-2 pH: 2 Sample Date: 09/30/2014 Sample Time: 10:10:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	2.0		UG/L	2.0		1.0	Yes	S3VEM
Trichloroethene	Target	1.3		UG/L	1.3		1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.41	J	UG/L	0.41	Ј	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.41	J	UG/L	0.41	J	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	1.6	J-	UG/L	1.6		1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	0.50	UJ	UG/L	8.5	NJ	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	NJ	UG/L	0.50	U	1.0	Yes	S3VE

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF4RE VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: DUP-2 pH: 2 Sample Date: 09/30/2014 Sample Time: 10:10:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
1,1- Dichloroethene	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	No	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
trans-1,2- Dichloroethene	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
cis-1,2- Dichloroethene	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	No	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Cyclohexane	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
1,2- Dichloroethane	Target	1.9		UG/L	1.9		1.0	No	S3VEM
Trichloroethene	Target	1.4		UG/L	1.4		1.0	No	S3VEM
Methylcyclohexa ne	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
1,2- Dichloropropane	Target	0.21	J	UG/L	0.21	J	1.0	No	S3VEM
Bromodichlorom ethane	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	No	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
trans-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
1,1,2- Trichloroethane	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	No	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Chlorobenzene	Target	0.42	J	UG/L	0.42	J	1.0	No	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
1,4- Dichlorobenzene	Target	0.51		UG/L	0.51		1.0	No	S3VEM
1,2- Dichlorobenzene	Target	2.0		UG/L	2.0		1.0	No	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	UJ	UG/L	0.50	U	1.0	No	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	No	S3VEM
cis-1,3- dichloropropene- d4	TIC	0.50	U	UG/L	10	NJ	1.0	No	S3VEM
1,2,3- Trichlorobenzen e	Target	10	NJ	UG/L	0.50	U	1.0	No	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF5 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: FU pH: 2 Sample Date: 09/30/2014 Sample Time: 11:38:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	UJ	UG/L	0.18	JB	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	6.1		UG/L	6.1		1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 4471	9 Contract:	EPW11031		SDG No:	BBYE1	Lab Code:	KAP
Sample Number:	BBYF5	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Location:	FU	pH:	5.9	Sample Da	te: 09/30/2014	Sample Time:	11:38:00
% Moisture:				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.25	J	UG/L	0.25		1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF6VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: MW-7BR pH: 2 Sample Date: 09/30/2014 Sample Time: 14:15:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.27	J	UG/L	0.27	J	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	1.2		UG/L	1.2		1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	2.3		UG/L	2.3		1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	1.6		UG/L	1.6		1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF7 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: BF-2D pH: 2 Sample Date: 09/30/2014 Sample Time: 14:35:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	76		UG/L	76	Е	1.0	No	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	9.2		UG/L	9.2		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	25		UG/L	25	Е	1.0	No	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	6.5		UG/L	6.5		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	9.7		UG/L	9.7		1.0	Yes	S3VEM
1,2- Dichloroethane	Target	1.7		UG/L	1.7		1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.25	JB	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	14		UG/L	14		1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.18	JB	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	1.1		UG/L	1.1		1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.24	J	UG/L	0.24	J	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	1.3		UG/L	1.3		1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	1.3		UG/L	1.3		1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	10	NJ	UG/L	10	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclopentanone, 2,2,4-trimethyl-	TIC	3.5	NJ	UG/L	3.5	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF7DL VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: BF-2D pH: 2 Sample Date: 09/30/2014 Sample Time: 14:35:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Chloromethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Vinyl chloride	Target	74		UG/L	74	D	10.0	Yes	S3VEM
Bromomethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Chloroethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Trichlorofluorom ethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,1- Dichloroethene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Acetone	Target	50	U	UG/L	50	U	10.0	No	S3VEM
Carbon disulfide	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Methyl acetate	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Methylene chloride	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
trans-1,2- Dichloroethene	Target	9.1		UG/L	9.1	D	10.0	No	S3VEM
Methyl tert-butyl ether	Target	23		UG/L	23	D	10.0	Yes	S3VEM
1,1- Dichloroethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
cis-1,2- Dichloroethene	Target	6.1		UG/L	6.1	D	10.0	No	S3VEM
2-Butanone	Target	50	U	UG/L	50	U	10.0	No	S3VEM
Bromochloromet hane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Chloroform	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,1,1- Trichloroethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Cyclohexane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Carbon tetrachloride	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Benzene	Target	10		UG/L	10	D	10.0	No	S3VEM
1,2- Dichloroethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Trichloroethene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Methylcyclohexa ne	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,2- Dichloropropane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Bromodichlorom ethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
4-Methyl-2- pentanone	Target	50	U	UG/L	50	U	10.0	No	S3VEM
Toluene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
trans-1,3- Dichloropropene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,1,2- Trichloroethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Tetrachloroethen e	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
2-Hexanone	Target	50	U	UG/L	50	U	10.0	No	S3VEM
Dibromochlorom ethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,2- Dibromoethane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Chlorobenzene	Target	14		UG/L	14	D	10.0	No	S3VEM
Ethylbenzene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
o-Xylene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
m,p-Xylene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Styrene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Bromoform	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
Isopropylbenzen e	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,1,2,2- Tetrachloroethan e	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,3- Dichlorobenzene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,4- Dichlorobenzene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,2- Dichlorobenzene	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,2-Dibromo-3- chloropropane	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
1,2,4- Trichlorobenzen e	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
[2-(4- Dimethylaminoc innamoyl)-5- methylphenoxy] difluoroborane	TIC	77	DNJB	UG/L	77	DNJB	10.0	No	NV
1,2,3- Trichlorobenzen e	Target	5.0	U	UG/L	5.0	U	10.0	No	S3VEM
cis-1,3- dichloropropene- d4	TIC	80	DNJ	UG/L	80	DNJ	10.0	No	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF8 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: MW-6BR pH: 2 Sample Date: 09/30/2014 Sample Time: 12:45:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.16	J	UG/L	0.16	J	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.54		UG/L	0.54		1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	2.1		UG/L	2.1		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	3.1		UG/L	3.1		1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.52		UG/L	0.52		1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	8.4	NJ	UG/L	8.4	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYF9 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: ER-2 pH: 2 Sample Date: 09/30/2014 Sample Time: 15:04:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV

Case No: 4471	9 Coi	ntract: EPW11031	S	SDG No:	BBYE1	Lab Code:	KAP
Sample Number:	BBYF9	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Location:	ER-2	pH:	6.9	Sample Date:	09/30/2014	Sample Time:	15:04:00
% Moisture:				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.25	U	UG/L	0.25	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYG0VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: BF-2 pH: 2 Sample Date: 09/30/2014 Sample Time: 15:35:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	6.7		UG/L	6.7		1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	6.3		UG/L	6.3		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	7.2		UG/L	7.2		1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	30		UG/L	30	Е	1.0	No	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	3.6		UG/L	3.6		1.0	Yes	S3VEM
1,2- Dichloroethane	Target	6.7		UG/L	6.7		1.0	Yes	S3VEM
Trichloroethene	Target	0.22	J	UG/L	0.22	J	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	14		UG/L	14		1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.54		UG/L	0.54		1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.25	J	UG/L	0.25	J	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	1.2		UG/L	1.2		1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	1.6		UG/L	1.6		1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.16	J	UG/L	0.16	J	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Indane	TIC	4.6	NJ	UG/L	4.6	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: BBYG0DLVOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: BF-2 pH: 2 Sample Date: 09/30/2014 Sample Time: 15:35:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chloromethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Vinyl chloride	Target	6.8		UG/L	6.8	D	5.0	No	S3VEM
Bromomethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Trichlorofluorom ethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1- Dichloroethene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Acetone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Carbon disulfide	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Methyl acetate	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Methylene chloride	Target	2.5	U	UG/L	0.85	DJB	5.0	No	S3VEM
trans-1,2- Dichloroethene	Target	6.1		UG/L	6.1	D	5.0	No	S3VEM
Methyl tert-butyl ether	Target	7.1		UG/L	7.1	D	5.0	No	S3VEM
1,1- Dichloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
cis-1,2- Dichloroethene	Target	30		UG/L	30	D	5.0	Yes	S3VEM
2-Butanone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Bromochloromet hane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chloroform	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1,1- Trichloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Cyclohexane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Carbon tetrachloride	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Benzene	Target	3.9		UG/L	3.9	D	5.0	No	S3VEM
1,2- Dichloroethane	Target	6.9		UG/L	6.9	D	5.0	No	S3VEM
Trichloroethene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Methylcyclohexa ne	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2- Dichloropropane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Bromodichlorom ethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
4-Methyl-2- pentanone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Toluene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
trans-1,3- Dichloropropene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1,2- Trichloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Tetrachloroethen e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
2-Hexanone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Dibromochlorom ethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2- Dibromoethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chlorobenzene	Target	14		UG/L	14	D	5.0	No	S3VEM
Ethylbenzene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
o-Xylene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
m,p-Xylene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Styrene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Bromoform	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Isopropylbenzen e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1,2,2- Tetrachloroethan e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,3- Dichlorobenzene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,4- Dichlorobenzene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2- Dichlorobenzene	Target	2.0	J	UG/L	2.0	DJ	5.0	No	S3VEM
1,2-Dibromo-3- chloropropane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2,4- Trichlorobenzen e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
cis-1,3- dichloropropene- d4	TIC	51	DNJ	UG/L	51	DNJ	5.0	No	NV
1,2,3- Trichlorobenzen e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM

Case No: 4471	9 Contract:	EPW11031	SDG No:	BBYE1	Lab Code:	KAP
Sample Number:	PBLK39	Method: Pest	Matrix:	Water	MA Number:	2081.5
Sample Location:	PBLK39	pH:	Sample Date:	10/20/2014	Sample Time:	16:53:00
% Moisture:	0.00		% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.25	U	UG/L	0.25	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: PLCS39 Pest Water 2081.5 Method: Matrix: MA Number: Sample Location: PLCS39 pH: Sample Date: 10/20/2014 Sample Time: 17:11:00 % Moisture: 0.00 % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.51		UG/L	0.51		1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: VBLK07 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK07 pH: Sample Date: 10/08/2014 Sample Time: 21:57:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.20	J	UG/L	0.20	J	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.25	J	UG/L	0.25	J	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.22	J	UG/L	0.22	J	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.25	J	UG/L	0.25	J	1.0	Yes	S3VEM
3-(4-Methyl- piperazin-1-yl)- N-(4- trifluoromethoxy -phenyl)- propionamide	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: VBLK11 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK11 pH: Sample Date: 10/09/2014 Sample Time: 16:51:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.17	J	UG/L	0.17	J	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: VBLK15 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK15 pH: Sample Date: 10/10/2014 Sample Time: 15:25:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.088	J	UG/L	0.088	J	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.038	J	UG/L	0.038	J	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.030	J	UG/L	0.030	J	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.13	J	UG/L	0.13	J	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.14	J	UG/L	0.14	J	1.0	Yes	S3VEM
[2-(4- Dimethylaminoc innamoyl)-5- methylphenoxy] difluoroborane	TIC	2.2	NJ	UG/L	2.2	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: VBLK23 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK23 pH: Sample Date: 10/16/2014 Sample Time: 12:11:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.51		UG/L	0.51		1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	10	NJ	UG/L	10	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYE1 Lab Code: KAP Sample Number: VHBLK01 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: S-6729.11 pH: Sample Date: 10/16/2014 Sample Time: 12:42:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.58		UG/L	0.58	В	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJB	UG/L	11	NJB	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Sample Summary Report

Case No: 44719	Contract:	EPW11031		SDG No:	BBYG1	Lab Code:	KAP
Sample Number: BBY	/G1	Method:	VOA_Trace	Matrix:	Water	MA Number:	DEFAULT
Sample Location: TB-	3	pH:	2	Sample Date:	10/01/2014	Sample Time:	06:30:00
% Moisture :				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	48		UG/L	48		1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
3-(4-Methyl- piperazin-1-yl)- N-(4- trifluoromethoxy -phenyl)- propionamide	TIC	1.5	NJB	UG/L	1.5	NJB	1.0	Yes	NV
cis-1,3- dichloropropene- d4	TIC	9.2	NJ	UG/L	9.2	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: BBYG2 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: MW-5BR pH: 2 Sample Date: 10/01/2014 Sample Time: 09:35:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	44		UG/L	44	Е	1.0	No	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	5.5		UG/L	5.5		1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	36		UG/L	36	Е	1.0	No	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	4.5		UG/L	4.5		1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	16		UG/L	16		1.0	Yes	S3VEM
1,2- Dichloroethane	Target	4.4		UG/L	4.4		1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.30	J	UG/L	0.30	J	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	14		UG/L	14		1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.19	J	UG/L	0.19	J	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	1.9		UG/L	1.9		1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.25	J	UG/L	0.25	J	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	1.2		UG/L	1.2		1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.93		UG/L	0.93		1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV
Cyclopentanone, 2,2,4-trimethyl-	TIC	9.1	NJ	UG/L	9.1	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: BBYG2DL VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: MW-5BR pH: 2 Sample Date: 10/01/2014 Sample Time: 09:35:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chloromethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Vinyl chloride	Target	45		UG/L	45	D	5.0	Yes	S3VEM
Bromomethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Trichlorofluorom ethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1- Dichloroethene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Acetone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Carbon disulfide	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Methyl acetate	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Methylene chloride	Target	2.5	U	UG/L	1.6	DJB	5.0	No	S3VEM
trans-1,2- Dichloroethene	Target	5.3		UG/L	5.3	D	5.0	No	S3VEM
Methyl tert-butyl ether	Target	32		UG/L	32	D	5.0	Yes	S3VEM
1,1- Dichloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
cis-1,2- Dichloroethene	Target	4.0		UG/L	4.0	D	5.0	No	S3VEM
2-Butanone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Bromochloromet hane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chloroform	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1,1- Trichloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Cyclohexane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Carbon tetrachloride	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Benzene	Target	17		UG/L	17	D	5.0	No	S3VEM
1,2- Dichloroethane	Target	4.6		UG/L	4.6	D	5.0	No	S3VEM
Trichloroethene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Methylcyclohexa ne	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2- Dichloropropane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Bromodichlorom ethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
4-Methyl-2- pentanone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Toluene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
trans-1,3- Dichloropropene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,1,2- Trichloroethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Tetrachloroethen e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
2-Hexanone	Target	25	U	UG/L	25	U	5.0	No	S3VEM
Dibromochlorom ethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2- Dibromoethane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Chlorobenzene	Target	15		UG/L	15	D	5.0	No	S3VEM
Ethylbenzene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
o-Xylene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
m,p-Xylene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Styrene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Bromoform	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
Isopropylbenzen e	Target	1.3	J	UG/L	1.3	DJ	5.0	No	S3VEM
1,1,2,2- Tetrachloroethan e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,3- Dichlorobenzene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,4- Dichlorobenzene	Target	1.3	J	UG/L	1.3	DJ	5.0	No	S3VEM
1,2- Dichlorobenzene	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2-Dibromo-3- chloropropane	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2,4- Trichlorobenzen e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
1,2,3- Trichlorobenzen e	Target	2.5	U	UG/L	2.5	U	5.0	No	S3VEM
cis-1,3- dichloropropene- d4	TIC	63	DNJ	UG/L	63	DNJ	5.0	No	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: BBYG3 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: MW-3S pH: 2 Sample Date: 10/01/2014 Sample Time: 13:50:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	1.9	J	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	9.8	NJ	UG/L	9.8	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: BBYG4 VOA_Trace Water MA Number: DEFAULT Method: Matrix: Sample Location: MW-3BR pH: 2 Sample Date: 09/30/2014 Sample Time: 12:25:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	10	NJ	UG/L	10	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No: 44	19	Contract:	EPW11031		SDG No:	BBYG1	Lab Code:	KAP
Sample Number	BBYG5		Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Location	: ER-3		pH:	7.0	Sample Date:	10/01/2014	Sample Time:	14:45:00
% Moisture:					% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.25	U	UG/L	0.25	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: BBYG5 VOA_Trace Water MA Number: DEFAULT Method: Matrix: Sample Location: ER-3 pH: 2 Sample Date: 10/01/2014 Sample Time: 14:45:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Case No:	44719	Contract:	EPW11031		SDG No:	BBYG1	Lab Code:	KAP
Sample Nu	mber:	BBYG5MS	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Loc	cation:	S-6736.05	pH:	7.0	Sample Date:	10/01/2014	Sample Time:	14:45:00
% Moistur	e :				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.64	J	UG/L	0.64	P	1.0	Yes	S3VEM

Case No:	44719	Contract:	EPW11031		SDG No:	BBYG1	Lab Code:	KAP
Sample Num	ber: BB	YG5MSD	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Loca	ntion: S-6	736.05	pH:	7.0	Sample Date:	10/01/2014	Sample Time:	14:45:00
% Moisture	:				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.69	J	UG/L	0.69	P	1.0	Yes	S3VEM

Case No: 447	19 Contract:	EPW11031		SDG No:	BBYG1	Lab Code:	KAP
Sample Number:	BBYG6	Method:	Pest	Matrix:	Water	MA Number:	2081.5
Sample Location:	FU Resample	pH:	5.9	Sample Date:	10/01/2014	Sample Time:	16:35:00
% Moisture :				% Solids:			

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.25	U	UG/L	0.25	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: PBLK39 Pest Water 2081.5 Method: Matrix: MA Number: Sample Location: PBLK39 pH: Sample Date: 10/20/2014 Sample Time: 16:53:00 % Moisture: 0.00 % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.25	U	UG/L	0.25	U	1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: PLCS39 Pest Water 2081.5 Method: Matrix: MA Number: Sample Location: PLCS39 pH: Sample Date: 10/20/2014 Sample Time: 17:11:00 % Moisture: 0.00 % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dinoseb	Target	0.51		UG/L	0.51		1.0	Yes	S3VEM

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: VBLK07 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK07 pH: Sample Date: 10/08/2014 Sample Time: 21:57:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.20	J	UG/L	0.20	J	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	UJ	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.25	J	UG/L	0.25	J	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.22	J	UG/L	0.22	J	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.25	J	UG/L	0.25	J	1.0	Yes	S3VEM
3-(4-Methyl- piperazin-1-yl)- N-(4- trifluoromethoxy -phenyl)- propionamide	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: VBLK11 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK11 pH: Sample Date: 10/09/2014 Sample Time: 16:51:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.17	J	UG/L	0.17	J	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	11	NJ	UG/L	11	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: VBLK15 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK15 pH: Sample Date: 10/10/2014 Sample Time: 15:25:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.088	J	UG/L	0.088	J	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.038	J	UG/L	0.038	J	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.030	J	UG/L	0.030	J	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.13	J	UG/L	0.13	J	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.14	J	UG/L	0.14	J	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	12	NJ	UG/L	12	NJ	1.0	Yes	NV
[2-(4- Dimethylaminoc innamoyl)-5- methylphenoxy] difluoroborane	TIC	2.2	NJ	UG/L	2.2	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: VBLK23 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: VBLK23 pH: Sample Date: 10/16/2014 Sample Time: 12:11:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.51		UG/L	0.51		1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	10	NJ	UG/L	10	NJ	1.0	Yes	NV

Case No: 44719 Contract: EPW11031 SDG No: BBYG1 Lab Code: KAP Sample Number: VHBLK01 VOA_Trace Water DEFAULT Method: Matrix: MA Number: Sample Location: S-6736.07 pH: Sample Date: 10/16/2014 Sample Time: 17:52:00 % Moisture: % Solids:

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
Dichlorodifluoro methane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloromethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Vinyl chloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromomethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichlorofluorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2-Trichloro- 1,2,2- trifluoroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Acetone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Carbon disulfide	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl acetate	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylene chloride	Target	0.15	J	UG/L	0.15	JB	1.0	Yes	S3VEM
trans-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methyl tert-butyl ether	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,2- Dichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Butanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Bromochloromet hane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chloroform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,1- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Cyclohexane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Carbon tetrachloride	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Benzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Trichloroethene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Methylcyclohexa ne	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromodichlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM

Analyte Name	Analyte Type	Validation Result	Validation Flag	Units	Lab Result	Lab Flag	Dilution Factor	Reportable	Validation Level
cis-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
4-Methyl-2- pentanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Toluene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
trans-1,3- Dichloropropene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2- Trichloroethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Tetrachloroethen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
2-Hexanone	Target	5.0	U	UG/L	5.0	U	1.0	Yes	S3VEM
Dibromochlorom ethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dibromoethane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Chlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Ethylbenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
o-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
m,p-Xylene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Styrene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Bromoform	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
Isopropylbenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,1,2,2- Tetrachloroethan e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,3- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,4- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2- Dichlorobenzene	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2-Dibromo-3- chloropropane	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
1,2,4- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM
cis-1,3- dichloropropene- d4	TIC	10	NJ	UG/L	10	NJ	1.0	Yes	NV
1,2,3- Trichlorobenzen e	Target	0.50	U	UG/L	0.50	U	1.0	Yes	S3VEM